

TRAFFIC IMPACT STUDY & PARKING STUDY - 2nd OPA/ZBA SUBMISSION

Proposed Infill Redevelopment,
1785 Bloor Street, City of Mississauga,
Region of Peel

September 2023

Prepared For

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September 29, 2023

1785 Bloor Holdings Inc, C/O Compten Management Inc.
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Re: Proposed 14-Storey Residential Apartment Building, 1785 Bloor Street, Mississauga, ON – Traffic Impact and Parking Study – 2nd OPA/ZBA Submission

TRANS-PLAN is pleased to submit this Traffic Impact and Parking Study for the proposed infill redevelopment to the existing 76-unit apartment building at 1785 Bloor Street in the City of Mississauga, proposing a 14-storey apartment building with 234 dwelling units. The existing 10-storey apartment will be retained, for a total of 310 residential dwelling units on the property.

Our findings indicate that the proposed development can be accommodated on the surrounding road network without any improvements other than constructing the proposed driveways. Further, the proposed auto parking supply of 0.92 spaces per unit is expected to be sufficient based on our review of the existing parking supply and demand at the 76 unit apartment. Units are to be catered to those who do not own a personal vehicle and would utilize the alternative modes of travel in the study area.

A Transportation Demand Management plan has also been included in this report, discussing how the subject site can reduce single-occupant vehicle travel and encourage alternative modes of travel.

A Site Circulation review has been included within the report, demonstrating that waste collection, loading, and passenger vehicles can properly and safely circulate the subject site.

Sincerely,

Anil Seegobin, P.Eng.
Partner, Engineer

Trans-Plan Transportation Inc.
Transportation Consultants




Charles Chung
Traffic Analyst

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Transmittal Letter

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1. INTRODUCTION

Trans-Plan has been retained by 1785 Bloor Holdings Inc. to complete a Traffic Impact Study and Parking Study for a proposed 14-storey residential apartment at 1785 Bloor Street (the “subject site” or “site”, Mississauga. The study components include the following tasks:

Traffic Impact Study

- A review and assessment of the existing road network
- A review of the site context and development proposal
- An assessment of future background conditions based on anticipated traffic growth, area developments and planned transportation improvements in the study area
- An assessment of the impact of site-generated traffic on the adjacent roadway network under future background and total traffic conditions
- Determination of roadway and intersection improvements and transit and pedestrian / cycling infrastructure improvements, as required, to accommodate the proposed development

Parking Study

- A review of the auto parking supply and requirements based on the City of Mississaugas By-law 0225-2007
- Conduction of parking utilization surveys to determine existing parking requirements, and provide an analysis of future parking demands including that generated from the additional apartment building
- Provide justification for reduced parking provisions at the site, if necessary.

Traffic Demand Management (TDM) Plan

- A review of the study area roadways for transit and active transportation facilities
- A review of TDM guidelines to determine the TDM measures that would be appropriate for the planned development in terms of context, scale and land use

Prior to conducting this study, City of Mississauga Transportation staff were provided a terms of reference to confirm the study scope and methodology.

Correspondence with the City was completed after the first submission to discuss the methodology of the proxy parking surveys to be conducted for six days within a two week period. Further discussion is provided in Section 10. Thorough discussion with the City was also conducted to provide an acceptable access location suited to the City and the Applicant. The site access location has been pushed further east from the existing access to provide the furthest distance from the proposed signal location, while allowing good circulation within the subject site, as demonstrated in Section 11.

2. SITE CONTEXT

The subject site, shown in Figure 1, is located on the north side of Bloor Street, approximately 150m west of Bridgewood Drive in the City of Mississauga. The lot is currently occupied by an existing 10-storey apartment building containing 76 residential units, with access to the site provided from Bloor Street. The unit breakdown is as follows:

- Bachelor: 20 units
- 1-Bedroom: 18 units
- 2-Bedroom: 38 units

Land uses in the immediate area surrounding the site include mostly high-rise apartment buildings with some commercial/service uses to the west, and a high school located to the north. Adjacent east is Ontario Hydro owned lands. Beyond the immediate area surrounding the site, land uses consist mostly of low-density neighbourhoods.

3. PROPOSED DEVELOPMENT

The site plan, provided by onespace unlimited inc., is shown in Figure 2. The proposed development consists of a new 14-storey apartment building located in the rear portion of the site, consisting of 234 units. The unit breakdown is as follows:

- 1-Bedroom: 69 units
- 2-Bedroom: 125 units
- 3-Bedroom: 40 units

The existing apartment building on site is to remain unchanged, with the new structure to be in place of the existing parking lot. A total of 310 residential units are to be provided on-site, including the existing 76 units. The unit breakdown is as follows:

- Bachelor: 20 units
- 1-Bedroom: 87 units
- 2-Bedroom: 163 units
- 3-Bedroom: 40 units

Parking on site is to be provided via 8 at-grade visitor parking spaces, and two levels of underground parking consisting of 278 spaces. In total, 286 parking spaces are provided, with 31 visitor parking spaces and 255 resident parking spaces. Although not included in the total parking count, 12 tandem parking spaces are also provided in the underground levels for resident use to be determined. Based on coordination with the City, the subject site access is to be relocated further east along the lot frontage.

4. EXISTING CONDITIONS

4.1 Road Network

The roadways located in the study area are described as follows:

Bloor Street is a major collector road that runs in an east-west direction, under the jurisdiction of the City of Mississauga. It consists of four travel lanes, two in each direction. The posted speed limit within the study area is 50km/h.

Fieldgate Drive is a local road under the jurisdiction of the City of Mississauga, running in a north-south direction. It has two travel lanes, one in each direction. The speed limit is unposted, and is assumed to be 50 km/h.

Bridgewood Drive is a local road under the jurisdiction of the City of Mississauga, running in a north-south direction. It has two travel lanes, one in each direction. The speed limit is unposted, and is assumed to be 50 km/h.

There is also a Signalized Pedestrian Crossing (PXO) located between the 1745-1759 site access driveways (30m west of subject site access), which will be included in the road network analyzed through this report.

The existing study area roadway characteristics are shown in Figure 3.

4.2 Transit Service

The site is served by MiWay Transit, which provides transit routes across the city. The MiWay transit routes serving the area are as follows:

MiWay Route 3, Bloor is a local bus route operating mainly in an east-west orientation along Bloor Street. The route connects riders from the Mississauga City Centre Transit Terminal at Square one to Kipling Terminal. The nearest stop is located at the signalized PXO approximately 40-meters west of the subject site access.

MiWay Route 307, Philip Pocock-Bloor East is a high school bus route, operating exclusively with an eastbound route. The first stop is Philip Pocock Catholic Secondary School, then travels southbound as it services various secondary schools along Tomken Road, before travelling eastbound along Bloor Street, and the route ending at Kipling Terminal. As it is an exclusive eastbound route dedicated to secondary schools, the route is only operational during weekdays, and in service once per day. The nearest stop is located at the signalized PXO approximately 40-meters west of the subject site access.

The approximate service times and peak service frequencies for the above routes are shown below in Table 1. A transit map is also provided in Figure 4.

Table 1 – Transit Service in Study Area

YRT Route	Nearest Transit Stop to Site	Approximate Service Times		Approximate Peak Service Frequency (min)		
		Weekdays (WD)	Saturday (SAT)	WD AM	WD PM	SAT
3, Bloor	40m west of 1785 Bloor Street Site Access	4:06 – 3:32	05:20 – 01:03	15	13	22
307, Philip Pocock – Bloor East	40m west of 1785 Bloor Street Site Access	14:38	Not in Operation	-	-	-

Source: Triplinx website

4.3 Traffic Counts

Trans-Plan conducted turning movement counts (TMCs) at the study area intersection(s) and driveway(s) on Thursday November 25, 2021 (a typical weekday) during Step Three of Ontario's Roadmap to Reopen due to the ongoing Covid pandemic. The detailed TMC data, and signal timing plans, are provided in Appendix A, and the count dates, times and peak hours are summarized below in Table 2.

Table 2 – Turning Movement Counts, Study Area Intersections and Driveways

Location	Count Date	Count Hours	Peak Hours
Bloor Street and Bridgewood Drive (Signalized Intersection)	Thursday November 25, 2021	7:00am – 9:30am 4:00pm – 6:30pm	8:00am – 9:00am 4:45pm – 5:45pm
Bloor Street and Fieldgate Drive (Signalized Intersection)			8:00am – 9:00am 4:00pm – 5:00pm
Bloor Street and 1785 Bloor Street Site Access			8:00am – 9:00am 3:00pm – 4:00pm

The existing traffic volumes for the weekday AM and PM peak hours are shown in Figure 5.

4.4 Traffic Volume Comparison

Trans-Plan conducted turning movement counts on Wednesday August 30, 2023 at the site access to better understand the impacts of vehicular traffic along Bloor Street due to the pandemic. The count hours were consistent with the 2021 counts, with the comparison provided in Table 3. The raw data for the 2023 count is provided in Appendix A.

Table 3 – Comparison of Bloor Street Vehicular Traffic in 2021 and 2023

Count Date	Bloor Street Peak Hour Vehicular Traffic					
	Eastbound		Westbound		Total	
	AM	PM	AM	PM	AM	PM
Thursday November 25, 2021	812	738	528	868	1,340	1,606
Wednesday August 30, 2023	570	770	403	699	973	1,469

Based on our review, the overall traffic volumes from the 2021 traffic count are higher than the counts surveyed in 2023. This could be due in part to multiple factors, such as being conducted in different seasons, and vehicle travel patterns changing due to the pandemic. The traffic analysis within this report carried forward with the 2021 counts to utilize the higher traffic volumes.

5. FUTURE BACKGROUND CONDITIONS

The future background traffic volumes for the weekday AM and PM peak hours are shown in Figure 6, based on review of background traffic growth, planned developments and roadway improvements.

5.1 Background Growth Rate

City of Mississauga Transportation Planning Staff were contacted to discuss a feasible growth rate for the study area roadways. It was recommended a 1% growth rate be applied to westbound AM peak traffic volumes, and a 0.5% growth rate applied to the eastbound PM peak traffic volumes. The growth rate was applied to the study area intersections for a future horizon year of 2027.

5.2 Background Developments

Based on review of the City of Mississauga's Active Development Applications, there are two notable background developments near the site that may have traffic impacts on the study area intersection(s) and driveway(s). These developments and their details are listed below in Table 4.

Table 4 – Planned Background Developments

No.	City File No.	Location	Description of Application	Trip Generation Source
DEV 1	OZ 17/014 W3	1750 Bloor Street & 3315 Fieldgate Drive	A 17-storey apartment building and a 1-storey amenity building. The two existing apartment buildings will remain.	Table 2 of the Traffic Impact Study Addendum, dated April 2020, prepared by LEA Consulting Ltd.
DEV 2	OZ 20-003 W3	1840 to 1850 Bloor Street	Two 18-storey apartment buildings containing 433 residential units. The two existing apartment buildings will remain.	Figure 7 of the Urban Traffic Considerations Report, dated February 2020, prepared by BA Group

The above noted developments and their respective traffic impact studies were referenced to obtain trip generation and distribution, which were then distributed to the study area intersections. It should be noted that the traffic study for the development at 1750 Bloor Street, opposite south of the subject development, did not include the drop-off area along Bloor Street in the analysis of future total traffic conditions, indicating it would be removed. In this case, traffic volumes obtained from the drop-off area and main driveway access were consolidated, with the intersection layout from its respective TIS carried forward through this analysis.

The trip generation and assignment figures for these above background developments are provided in Appendix B.

5.3 Future Roadway Improvements

In 2021, the City of Mississauga has initiated the Bloor Street Integrated Road Project, a planning and preliminary design study for various road improvements to the Bloor Street corridor, which includes the section analyzed in this report. The road improvements planned through the Integrated Road Project will focus on road rehabilitation, road safety, noise walls, street-lighting, and cycling and transit facilities.

The major changes to the section of Bloor Street within the study area will include widening the roadway to incorporate a signalized intersection at the driveways of 1759 and 1750 Bloor Street, replacing the pedestrian cross-over. Coordination and consultation with City staff was undertaken to arrive at an acceptable access location for the subject site, with the access as far east as possible from the proposed traffic signal. The City is currently reviewing the approved design on Bloor Street to provide cycle tracks on either side of the roadway, and reduce the lanes from four travel lanes, to three travel lanes. One lane is to be provided in each direction, along with a centre left-turn lane. The boulevard and pedestrian sidewalk are also to be maintained.

6. SITE TRAFFIC

6.1 Trips Generated by Existing Uses

A site visit and observation of the site access was conducted on Thursday November 25th, 2021. This included an in-out count of vehicles at the site access to determine the regular number of vehicles entering and exiting the site during the peak hours on a typical weekday. Detailed traffic counts from the existing driveway access are provided in Appendix A, and summarized below in Table 5.

Table 5 – Existing Site Trip Generation

Location	Units	AM Peak Hour		PM Peak Hour	
		IN	OUT	IN	OUT
1785 Bloor Street (Existing 10-Storey Apartment Building)	Trips	13	16	18	20
	Total		29		38

Based on the above information, the existing residential apartment building generates approximately 29 and 38 two-way trips during the AM and PM peak hours, respectively.

6.2 Trip Generation for Additional Development

The auto trip rates from the Institute of Transportation Engineers (ITE) Trip Generation manuals, 10th Edition, Land Use Code (LUC) 222 for Multifamily Housing (High-Rise) was referenced to estimate the trip volumes generated by the new apartment building. The estimated trip generation for the new residential addition is shown below in Table 6.

Table 6 – Site Trip Generation

Land Use	Size (units)	Weekday AM Peak Hour			Weekday PM Peak Hour		
		In	Out	Total	In	Out	Total
Multifamily Housing (High-Rise)	234						
ITE Code 222	Distribution	26%	74%	100%	61%	39%	100%
	Equation	$T = 0.28(X) + 12.86$			$T = 0.34(X) + 8.56$		
	Rate	0.08	0.25	0.33	0.23	0.15	0.38
	Trips	20	58	78	54	34	88

Based on ITE's trip generation rates, the new apartment building on-site is expected to generate approximately 78 and 88 new two-way trips during the weekday AM and PM peak hours, respectively.

6.3 Trip Distribution and Assignment

Site trips for the proposed development were distributed to / from the subject site and the boundary roadways based on existing travel patterns obtained from the study area intersection and site driveway counts.

The existing directional distribution of traffic volumes along Bloor Street was analyzed, with the resulting volume split approximately 60 percent eastbound / 40 percent westbound during the weekday AM peak hour and approximately 55 percent westbound / 45 percent eastbound during the weekday PM peak hour. The estimated site traffic assignment for the weekday AM and PM peak hours is shown in Figure 7.

7. FUTURE TOTAL CONDITIONS

The future total traffic volumes for the horizon year 2027 during the weekday AM and PM peak hours are shown in Figure 8, respectively, obtained by adding the site trip assignment to the future 2027 background traffic volumes.

8. CAPACITY AND VEHICLE QUEUING ANALYSIS

8.1 Capacity Analysis

A capacity analysis was performed for the study area roadways using Synchro analysis software. The capacity analysis results of the weekday AM and PM peak hours are shown in Appendix C. Capacity Analysis and Queue Sheets are provided in Appendix C.

According to the City of Mississauga Traffic Impact Study guidelines, a volume-to-capacity (v/c) ratio of 0.85 or less is considered acceptable for signalized intersections, and a v/c of 0.90 or less is acceptable for exclusive turning movements.

The results for the study area intersections and driveway(s) are summarized as follows:

Bloor Street & Bridgewood Drive

Under existing conditions, this intersection operates well at an overall LOS of A during the AM and PM peak hours, with a maximum v/c ratio and delay of 0.40 and 34 seconds during the PM peak hour.

Under future 2027 total traffic conditions, it is expected to continue operating well at an overall LOS of B and A during the AM and PM peak hour, respectively. All individual movements operate acceptably with v/c ratios of 0.68 or better.

Bloor Street & 1785 Bloor Street Driveway

Under existing conditions, the driveway operates effectively at an overall LOS of A, with a maximum v/c ratio and delay of 0.37 and 18 seconds during the PM peak hour.

Under future 2027 total traffic conditions, it is expected to continue operating well at an overall LOS of A, with the maximum delay for southbound motorists increasing marginally to 19 seconds.

Bloor Street & 1750 Bloor Street Driveway / 1759 Bloor Street Driveway

Under existing conditions, the driveway operates effectively at an overall LOS of A, with a maximum v/c ratio and delay of 0.28 and 22 seconds during the PM peak hour.

Under future conditions, the intersection has been signalized, utilizing the signal timings at Bridgewood Drive as the basis for the timings. The intersection is expected to continue operating well, with an overall LOS of A. All individual movements are expected to operate with reserve capacity.

Bloor Street & Fieldgate Drive

Under existing conditions, this intersection operates well at an overall LOS of B during the AM and PM peak hours, with a maximum v/c ratio and delay of 0.74 and 47 seconds during the AM peak hour.

Under future 2027 total traffic conditions, it is expected to continue operating well at an overall LOS of B during the AM and PM peak hour. All individual movements operate acceptably with v/c ratios of 0.74 or better.

8.2 Vehicle Queuing Analysis

A vehicle queuing analysis was performed for the study area intersections and driveways using SimTraffic analysis software, under the critical future 2027 total traffic conditions. A 30-minute seeding interval and 60-minute recording period was used, and the simulation was run 3 times.

The SimTraffic output sheets are provided in Appendix C, and the 95th percentile queue results are shown in Table 8.

Table 8 – Vehicle Queuing Analysis Results, Future 2027 Total Traffic Conditions

Intersection Movement	95 th Percentile Vehicle Queues	
	Weekday AM Peak Hour	Weekday PM Peak Hour
Bloor Street & Bridgewood Drive		
Eastbound Left / Through	54	45
Eastbound Through / Right	58	56
Westbound Left / Through	37	55
Westbound Through / Right	30	57
Northbound Left / Through / Right	51	33
Southbound Left / Through / Right	30	26
Bloor Street & 1785 Bloor Street Driveway		
Southbound Left / Right	10	13
Bloor Street & 1750 Bloor Street Driveway		
Eastbound Left / Through	45	49
Eastbound Through / Right	47	56
Westbound Left / Through	42	85
Westbound Through / Right	50	87
Bloor Street & Fieldgate		
Eastbound Left	28	31
Eastbound Through	47	53
Eastbound Through / Right	48	59
Westbound Left	16	21
Westbound Through	60	76
Westbound Through / Right	61	78
Northbound Left	22	25
Northbound Through / Right	23	18
Southbound Left	46	37
Southbound Through / Right	56	40

Based on the above queuing analysis, the 95th percentile vehicles queues for the signalized study area intersections are expected to be acceptable during the weekday AM and PM peak hours, under future 2027 total traffic conditions.

Once the signal control at 1750 Bloor Street is implemented, westbound vehicle queues may extend up to approximately 87m, or approximately 12 vehicle lengths. These vehicle queues may occasionally extend past the proposed site access location, however, coordination with the City was completed to determine the most appropriate location for the new access. Based on the capacity analysis of these driveways, the

control delay is minor and any vehicle queues would only affect drivers exiting the site for a brief period of time.

9. PEDESTRIAN CROSSING REVIEW

Trans-Plan's site visit on Thursday, November 25th, 2021, also included observations of the existing PXO along Bloor Street, approximately 40m west of the site driveway, to determine its impact on the driveway access during the peak hours, based on the total number of pedestrian calls made, and the average number of vehicles queued as a result. Table 9 below summarizes the information collected from the observations, with detailed results provided in Appendix D.

Table 9 – Survey Results of Existing PXO along Bloor Street

Location:	AM Peak Hour	PM Peak Hour
Signalized PXO, 30m west of 1785 Bloor Street Driveway		
Duration of PXO All-Red Time (Seconds)	30	
Number of Calls made per hour	13	14
Average Number of Vehicles Queued per hour	5	9
Observed Maximum Number of Vehicles Queued	12	14
Approximate Vehicle Queue Length $= 5.6 \text{ (TAC Standard Vehicle Design Length)} \times \text{Observed Max. Number of Vehicles Queued}$	$5.6 \times 12 =$ 67m	$5.6 \times 14 =$ 78m

As noted above, observations confirmed a maximum queue of 12 and 14 vehicles at the PXO during the AM and PM peak hours, respectively. Based on this information, an approximate length of those maximum vehicle queues was determined using the TAC standard vehicle design length of 5.6-meters.

Although in some instances the westbound vehicle queue extended to and/or past the 1750 Bloor Street driveway, the total time vehicles spent queued at the PXO was never greater than 45 seconds, as the PXO signal displays all-red to east and westbound traffic for a total of 30 seconds, after which through traffic can proceed. Observations also confirmed the larger vehicle queues were typically westbound platoons of vehicles approaching the PXO at the tail-end of the pedestrian phase, and as a result were stopped for an even shorter period. In any case, vehicles entering or exiting the 1785 Bloor Street driveway were not observed to be queued extensively while waiting for the westbound vehicle queue to clear from the PXO.

9.1 Summary of Findings

As previously noted, the capacity analysis indicates that the study area intersections can accommodate the additional traffic generated by the site and are expected to continue operating acceptably in horizon year 2027. Given the similar v/c ratios and control delays between the analysis of future background and total traffic conditions, all intersection movements are expected to continue operating similarly to existing conditions, with minor increases in delays anticipated. In this case, the additional site traffic is not

expected to have a significant impact on the roadway, in the form of queueing through the adjacent driveway accesses, or the PXO (which is to be removed for a full signal control intersection in the future).

10. PARKING STUDY

10.1 Existing Parking Requirements

A parking study was conducted to determine the parking demands of the existing residential development and to compare the demand with the parking supply and City of Mississauga Zoning By-law requirements for parking. The existing site parking requirements, based on the City Zoning By-law 0225-2007, Precinct 4 (see Appendix E), are summarized in Table 10.

Table 10 – Existing Site Parking Requirements, City of Mississauga By-law 0225-2007

Land Use	Size (units)	Minimum Requirements		Existing Supply
		Rate	Spaces	
Residential	76	1.00 spaces per unit	76	88
Visitor		0.20 spaces per unit	15	11
Total	76		91	99

Source: City of Mississauga Zoning By-law 0225-2007

The City's Zoning By-law parking requirement for the proposed uses is 91 spaces, whereas 99 spaces are provided on-site, resulting in a surplus of 8 parking spaces. It should be noted there are 3 existing parking spaces designated for service vehicles, which were not included in the total count of residential spaces as they are not intended for residents or visitors to the building.

10.2 Proposed Parking Supply for New Development

Auto parking is provided at-grade, and an underground parking garage with 2 parking levels, broken down as follows:

- At-Grade (Visitor Parking Only): 8 spaces
- P1 and P2 Levels: 23 visitor parking on P1 level and 255 resident spaces

The total parking supply is 286 parking spaces. 12 tandem parking spaces are also provided for residents on the underground parking levels, but are not included in the parking supply count towards the requirements.

10.3 Auto Parking Requirements for New Development

Per the parking requirements in the City's By-law, the site is required to provide a total of 372 spaces, as calculated in Table 11.

Table 11 – Parking Requirements for New Development, City of Mississauga By-law 0225-2007

Land Use	Size (units)	Minimum Requirements		Proposed Supply
		Rate	Spaces	
Residential	310	1.00 spaces per unit	310	255
Visitor		0.20 spaces per unit	62	31
Total	310		372	286

Source: City of Mississauga Zoning By-law 0225-2007

Compared to the 372 space requirement, the proposed parking supply of 286 parking spaces results in a shortfall of 86 parking spaces, a deficit of 24 percent.

10.4 **Parking Utilization Survey**

To better understand parking needs for the site, a parking utilization survey was conducted by Trans-Plan to determine the demand of the existing residential building.

The existing 76 unit apartment building provides 11 visitor parking spaces (~0.15 visitor spaces / unit), and 88 resident parking spaces (~1.15 resident spaces / unit).

The parking methodology was discussed with City staff, and the surveys were conducted for six days in two consecutive weeks. A surveyor was on-site to conduct spot counts every 30-minutes to record the residential and visitor parking demand. The following survey dates were conducted:

- Friday September 8 and September 15, 2023 – 6:00pm – 1:00am
- Saturday September 9 and September 16, 2023 – 2:00pm – 1:00am
- Sunday September 10 and September 17, 2023 – 2:00pm – 1:00am

The detailed parking survey results are provided in Appendix D and a summary of parking demand results for the apartment building on the weekday surveyed is shown in Table 12.

Table 12 – Parking Utilization Survey Results, Peak Demands

1785 Bloor Street (76 units)	Resident Parking	Visitor Parking
Peak Time	Sunday September 10, 2023 – 12:00am	Saturday September 9 and 16, 2023 – Various times
Peak Parking Demand (spaces)	70	4
Parking Utilization	0.92	0.05

The peak parking demand of the existing mixed-use building was 70 spaces for residents, and 4 spaces for visitors. The peak rate was 0.92 spaces per unit. The parking rates generated from the existing development were utilized to generate estimated parking demand for the future development based on the new total number of dwelling units.

10.5 Expected Peak Parking Demand

To depict the peak parking demand of the future development more accurately, with the addition of the new residential building, parking rates and projected demand generated based on City By-law requirements were compared those generated by the surveyed peak parking rates.

Table 13 – Comparison of Projected Parking Demand

1785 Bloor Street Parking Statistics	Zoning By-law Parking Requirement		Observed Parking Survey Rates	
	Resident	Visitor	Resident	Visitor
Rate	1.00 spaces / unit	0.20 spaces / unit	0.92 spaces / unit	0.05 spaces / unit
Demand	310 spaces	62 spaces	285 spaces	16 spaces

As noted above, the City parking requirements generate a parking rate of 1.20 for the proposed residential development, while the observed survey rates resulted in an overall rate of 0.97 spaces per unit, or approximately 301 parking spaces for the subject site.

10.6 Parking Supply Allocation

The proposed development is currently proposing a parking supply of 286 parking spaces, for an overall rate of 0.92 spaces per unit, which is 0.05 spaces per unit less than the surveyed parking rates. Based on the findings, the recommended parking supply allocation is shown in Table 14.

Table 14 – Parking Allocation

310 units	Resident Parking	Visitor Parking	Total	Tandem Spaces
Supply	255	31	286	12
Parking Rate	0.82 spaces / unit	0.10 spaces / unit	0.92 spaces / unit	0.04 spaces / unit

As the observed visitor parking demand of 0.05 spaces per unit is 25 percent of the By-law requirement of 0.20 spaces per unit, we would recommend an increase to 0.10 spaces per unit for visitors. Although it is still below the By-law requirement, the parking demand surveys demonstrated a fairly low number of visitors at the subject site, with the new addition expected to operate similarly.

This results in a remaining rate of 0.82 spaces per unit for residential units, resulting in a residential parking supply of 255 parking spaces, compared to the expected residential parking demand of 285 parking spaces. Although each residential unit would not have a vehicle parking space, the residential units would be catered to those who do not own a personal vehicle. In addition, 12 tandem spaces are provided for residents for an additional 0.04 resident spaces / unit. Although not included in the parking supply count for requirements, the additional spaces would allow residents who require additional spaces to utilize the tandem spaces.

Electric vehicle (EV) parking is also to be provided as per the City By-law 0225-2007. 20 percent of the residential parking, and 10 percent of the visitor parking proposed are to be EV ready parking spaces. Based on the proposed parking supply, 51 of the 255 resident parking spaces, and 3 of the 31 visitor parking spaces are proposed to be EV ready.

10.7 Transit Use

To further support the reduced residential and visitor parking supply, in comparison to Zoning By-law 0225-2007, a review of transit use was completed for the study area.

The subject site is located in Ward 3 of the City of Mississauga. Using 2006, 2011 and 2016 Transportation Tomorrow Survey (TTS) data, the transit modal split within the ward was analyzed.

Table 15 – Transit Split Comparison

Area	Transit Modal Split		
	2006 TTS Data	2011 TTS Data	2016 TTS Data
Ward 3	11%	16%	15%

Based on the TTS data, transit use has been increasing over the years in the study area. With a reduction of the observed peak resident parking demand of 285 spaces compared to the proposed resident parking supply of 255 parking spaces, the difference is 11% which can be resolved due to the transit use and 12 provided tandem parking spaces.

11. ON-SITE CIRCULATION STUDY

An on-site circulation study was conducted using AutoTurn vehicle turning template software to demonstrate that design vehicles can safely and efficiently access the site and their designated areas.

- Figure 9 demonstrates a 10m waste collection vehicle utilizing the proposed waste collection area without conflict. The vehicle forwards into the waste collection area, depicting a front-loaded waste collection vehicle, and reverses out of the waste collection area to exit the site along the 6m drive aisle.
- Figure 10 demonstrates a loading vehicle entering the site and utilizing the proposed loading area, represented by a TAC heavy single-unit (HSU) vehicle, performing similar maneuvers as the waste collection vehicle. Figure 11 demonstrates the loading vehicle reversing out of the loading area, and forwards out to exit the site.
- Figure 12 demonstrates two 5.2m passenger vehicles simultaneously using the ramp on the ground floor; one entering the ramp and one exiting the ramp.
- Figure 13 demonstrates a 5.2m passenger vehicle entering the site, dropping off passengers in front of the building and circulating the front of the building to exit the site.
- Figure 14 demonstrates a 5.2m passenger vehicle parking and exiting a critical parking spot in front of the building.
- Figure 15 demonstrates two 5.2m passenger vehicles simultaneously using the ramp on the first underground parking level; one entering the ramp and one exiting the ramp.

- Figure 16 demonstrates a 5.2m entering and exiting a critical parking space on the first underground level parking.
- Figure 17 demonstrates two 5.2m passenger vehicles simultaneously using the ramp on the second underground parking level; one entering the ramp and one exiting the ramp.

The underground parking levels provide 7m drive aisles, with all end parking spaces provided sufficient space to enter and exit the parking spaces without conflict with adjacent spaces or columns.

The vehicle turning templates show that the proposed driveways and internal drive aisles can accommodate the design vehicles and that site circulation is acceptable.

12. TRANSPORTATION DEMAND MANAGEMENT PLAN

A Transportation Demand Management (TDM) Plan is provided as part of this report in an effort to reduce traffic congestion and minimize parking demands by providing the public with a greater choice of opportunities to choose travel modes other than single-occupant vehicles. Our proposed TDM plan for the site is outlined as follows:

Pedestrian Connectivity

There is existing sidewalk infrastructure along all study area roadways, including Bloor Street which is approximately 15-20 meters south of the main entrance to the existing building, however there is currently not a walkway connection from the building to the sidewalk.

As previously noted in Section 5.3, the Bloor Street Integrated Road Project proposes widening of the roadway, however as per the plans provided by the City, the sidewalk network and boulevard are to be maintained.

The site plan (see Figure 2) also illustrates proposed concrete sidewalks within the site, connecting the main entrances of both buildings to the sidewalk network along Bloor Street.

Cycling

The existing sidewalk network along Bloor Street connects to Fieldgate Drive, which provides a signed bike route providing connectivity to multi-use trails along other major roadways such as Dixie Road, and Burnhamthorpe Road East.

Based on the design plans for the Bloor Street Integrated Road Project, one-way cycling tracks are to be provided on both the north and south sides of Bloor Street, which will provide more exclusive connectivity to other cycling facilities located in the area.

The addition of cycling lanes along Bloor Street will provide incentive to both residents and visitors to choose cycling over driving.

186 long-term bicycle parking spaces, provided at 0.6 spaces / unit, are provided for resident use.

52 short-term bicycle parking spaces, provided at 0.05 spaces / unit, are also provided at-grade for visitor use.

Transit

As discussed in Section 4.2, the subject site is serviced by MiWay's Route 3 and Route 307, with bus stops located along Bloor Street approximately 40m west of the subject site. The route provides connections to other major roadways such as Dixie Road (westbound), or towards Kipling Avenue (eastbound), where other major MiWay routes can be accessed, providing connectivity to the extensive transit network available. It is noted that Route 307 is for students and runs once in the AM and once in the PM.

The Bloor Street Integrated Road Project currently does not indicate any transit improvements along the section of the corridor analyzed in this report. Furthermore, the Corporate Report for the Cross-Boundary Transit Service Integration Pilot Project, issued by the City of Mississauga on May 25th, 2021, was obtained and reviewed for relevant comments. This report identified opportunities for MiWay and TTC cross-boundary services, which included Bloor Street just west of the study area analyzed in this report. However, it was noted that Route 3 is expected to maintain its existing service levels through this pilot project.

Although there are currently no identified transit improvements for the section of Bloor Street analyzed in this report, the existing service is expected to generate some ridership due to the proximity of the bus stops to the subject site.

Carpooling / Ridesharing

To help reduce travel by single-occupant automobiles, residents are encouraged to carpool where possible. Designated carpool parking is typically provided at non-residential developments only; however, residents are encouraged to join programs such as the Smart Commute Program, which helps drivers find suitable carpool options while also encouraging users to use alternative modes of transportation. Smart Commute is one of a network of local transportation management associations across the GTA-Hamilton delivering TDM programs and services.

Ridesharing is a growing trend within the GTA, allowing people without a vehicle to share a vehicle with others to their specified location. Uber was one of the first to start the ridesharing movement within the GTA. The ease of use with the smartphone application (app) is popular with young professionals and students who may look for other options than owning a personal vehicle for travel.

Communication Strategy

To inform residents and visitors of the alternative modes of travel available within the area, information packages should be provided and available at the reception area. The information packages could include the following:

- City of Mississauga Cycling Map
- Miway Transit Map and Route Schedules

This information package will assist those in planning their trips with the growing transit and cycling infrastructure within the study area.

TDM Monitoring Surveys

To assess the TDM measures proposed, it is recommended that the Owner undertake TDM Monitoring Initial Surveys with residents and report back to City staff within two months of reaching 50 percent

occupancy. Two years after the Initial Surveys, the Owner is to undertake TDM Monitoring Follow-Up Surveys and report back to City staff within two months. The survey would include questions regarding the mode of transportation used by residents to determine whether these measures are suitable in supporting the reduced parking supply in comparison to the Zoning By-law.

13. SUMMARY AND CONCLUSIONS

13.1 Summary

The key findings from the Traffic Impact and Parking Study 2nd OPA/ZBA submission, prepared for the proposed infill redevelopment at 1785 Bloor Street, Mississauga, ON, are summarized as follows:

Traffic Impact Study

- The existing residential development at the subject site consists of a 10-storey apartment building with 76 dwelling units.
- Based on TMC counts conducted at the subject site driveway, the existing residential development generates approximately 29 and 38 two-way trips during the AM and PM peak hours, respectively.
- The new apartment building proposed on-site consists of a 14-storey apartment building including 234 dwelling units. A total of 310 residential units, and 286 parking spaces are proposed.
- Based on ITE's Trip Generation manual, the additional apartment building is expected to generate approximately 78 and 88 new two-way trips during the weekday AM and PM peak hours, respectively.
- The capacity analysis indicates that the site driveway, adjacent site driveways, and intersections along Bloor Street at Fieldgate Drive and Bridgewood Drive are expected to operate acceptably in horizon year 2027. No road improvements or signal timing adjustments are required to accommodate the traffic generated by the development.
- The vehicle queuing analysis indicates that the queue lengths at the site driveway, adjacent site driveways, and intersections along Bloor Street are expected to be acceptable in horizon year 2027.
- Observations of the existing Signalized Pedestrian Crossing (PXO) were conducted to confirm its impact on the site driveway, in the form of vehicle queuing while the pedestrian phase is active. Vehicle queues were noted to not exceed more than 14 vehicles during the PM peak hour. Additionally, the duration of queues was marginal, given the pedestrian phase only lasts 30 seconds.
- Considering the results from the capacity and queuing analysis of existing, future background and total traffic conditions at the site driveways were similar, it can be concluded that operations at the site driveway will likely remain the same. In conclusion, the PXO is not expected to create extensive delays for motorists entering or exiting the site driveway, or adjacent site driveways.
- Due to the ongoing Bloor Street study, a signal control was applied to the driveway at 1750 Bloor Street under future conditions, which is expected to replace the PXO in the future. Our analysis indicates that the roadway is expected to operate acceptably under these conditions.

Parking Study

- The existing development provides 88 parking spaces for residents, and 11 pay-to-park spaces for visitor use, for a total of 99 parking spaces.
- Proposed parking for the future development is to be provided via 286 parking spaces, at a proposed rate of 0.92 spaces / unit, through two levels of underground parking, 8 at-grade parking spaces, and 12 tandem spaces not included in the total parking supply count of 286 spaces.
- Based on the City of Mississauga By-law 0225-2007, the development is required to provide a total of 372 parking spaces for the 310 residential units at a rate of 1.20 spaces per unit
- To further understand parking demand at the site, a parking utilization survey was conducted for 6 days in September 2023. The following summarizes the results from this study:
 - Existing required parking rate based off City By-law = 1.20
 - Existing observed peak parking rate = 0.97 (0.92 residential and 0.05 visitors)
- The proposed development is currently proposing a parking supply of 286 parking spaces, for an overall rate of 0.92 spaces per unit, which is 0.05 spaces per unit less than the surveyed parking rates.
- The proposed visitor parking rate for the site is 0.10 spaces per unit. Although it is still below the By-law requirement, the parking demand surveys demonstrated a fairly low number of visitors at the subject site, with the new addition expected to operate similarly.
- The proposed parking rate of the residential units is 0.82 spaces per unit, resulting in a residential parking supply of 255 parking spaces, compared to the expected residential parking demand of 285 parking spaces. Although each residential unit would not have a vehicle parking space, the residential units would be catered to those who do not own a personal vehicle.
- 12 tandem spaces are also provided for residents for an additional 0.05 resident spaces / unit.

On-Site Circulation Study

- An on-site circulation study was conducted using AutoTurn vehicle turning template software to demonstrate that all design vehicles can safely and efficiently access the site and their designated areas.
- Passenger vehicles can safely and efficiently access the underground ramps and park in critical spaces without conflict with adjacent spaces or columns.

Transportation Demand Management Plan

- The main entrance of each building is to provide walkways connecting with Bloor Street, allowing for connectivity to the existing sidewalk infrastructure.
- Upon completion of the Bloor Street Integrated Road Project, one-way cycling tracks are to be provided on both the north and south sides of the corridor.
- The site is currently served by MiWay Transit's Route 3 (Bloor), and Route 307 (Philip Pocock-Bloor East), with transit stops located less than 50m west of the site. Existing transit connections near the site along Bloor Street are to be maintained, providing connectivity to the extensive MiWay transit network available throughout the city. 186 long-term bicycle parking spaces, and 52 short-term bicycle

parking spaces are proposed for the subject site to further encourage cycling by residents and visitors to the site.

- Information packages (containing MiWay and cycling route maps, etc.) should be provided to future residents either by mail, or via an information session organized by the Developer / Applicant in conjunction with City of Mississauga Staff. Monitoring surveys are also recommended to be conducted to determine the efficacy of the proposed TDM measures and the travel modes used by residents.

13.2 Conclusions

To conclude, our traffic findings for horizon year 2027 indicate that the proposed development can be accommodated by the surrounding road network and no additional improvements are required.

Discussion with City staff was conducted to locate the subject site access further east along the property frontage, to provide the furthest distance possible from the proposed traffic signal that is to replace the PXO west of the subject site.

Parking surveys were completed at the existing apartment, resulting in a peak observed parking demand of 0.92 resident parking spaces per unit, and 0.05 visitor parking spaces per unit. The proposed parking supply allocation is 0.82 resident parking spaces per unit, and 0.10 visitor parking spaces per unit. Electronic vehicle parking spaces have also been provided as per the City By-law 0225-2007.

The parking supply reduction is justified through our TDM plan which includes cycling use, transit, ride share, communication strategy, and a TDM monitoring survey for residents. A review of transit use within the study area indicates an increase of transit use and 15 percent of transit mode of travel since 2016. Trans-Plan is of the opinion that the proposed parking supply is sufficient to support the proposed residential development due to the reduced need of owning a single-occupant vehicle due to the alternative modes provided on-site and within the study area.

Respectfully submitted,



Anil Seegobin, P.Eng.
 Partner, Engineer



Charles Chung
 Transportation E.I.T.

Trans-Plan Transportation Inc.
 Transportation Consultants

Figure 1 – Site Location



Source: Google Earth

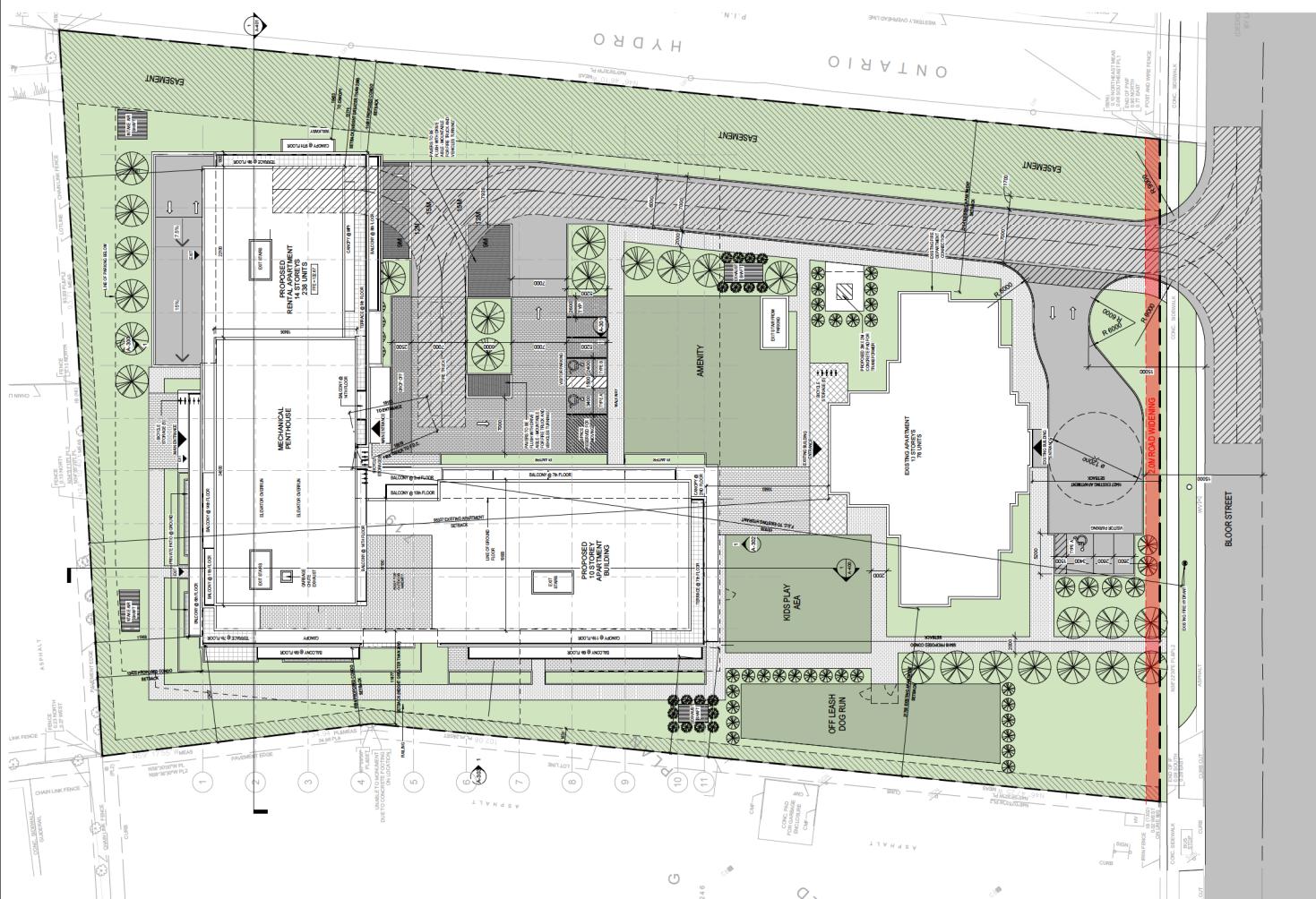


Figure 3: Existing Study Area Roadway Characteristics

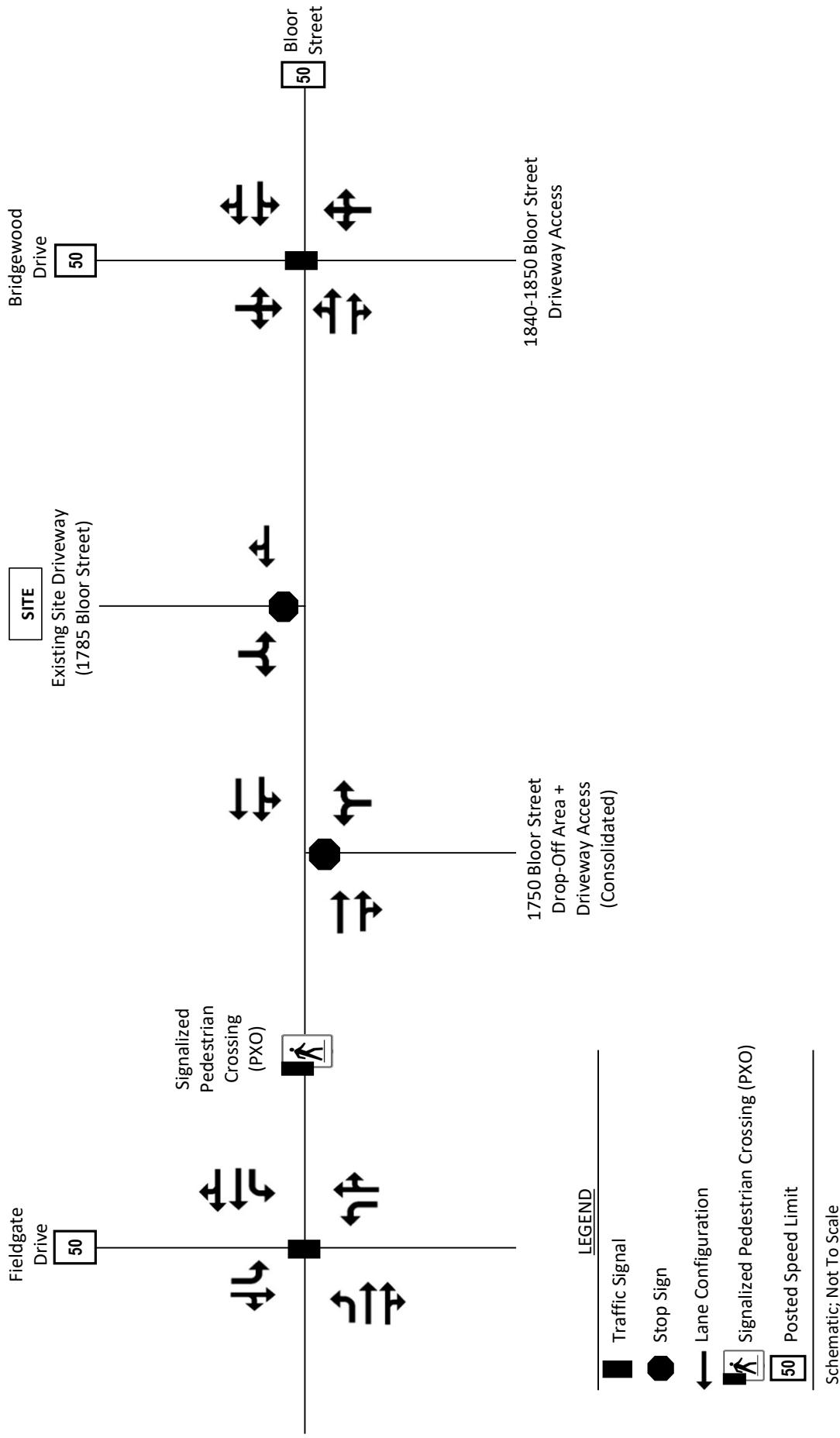
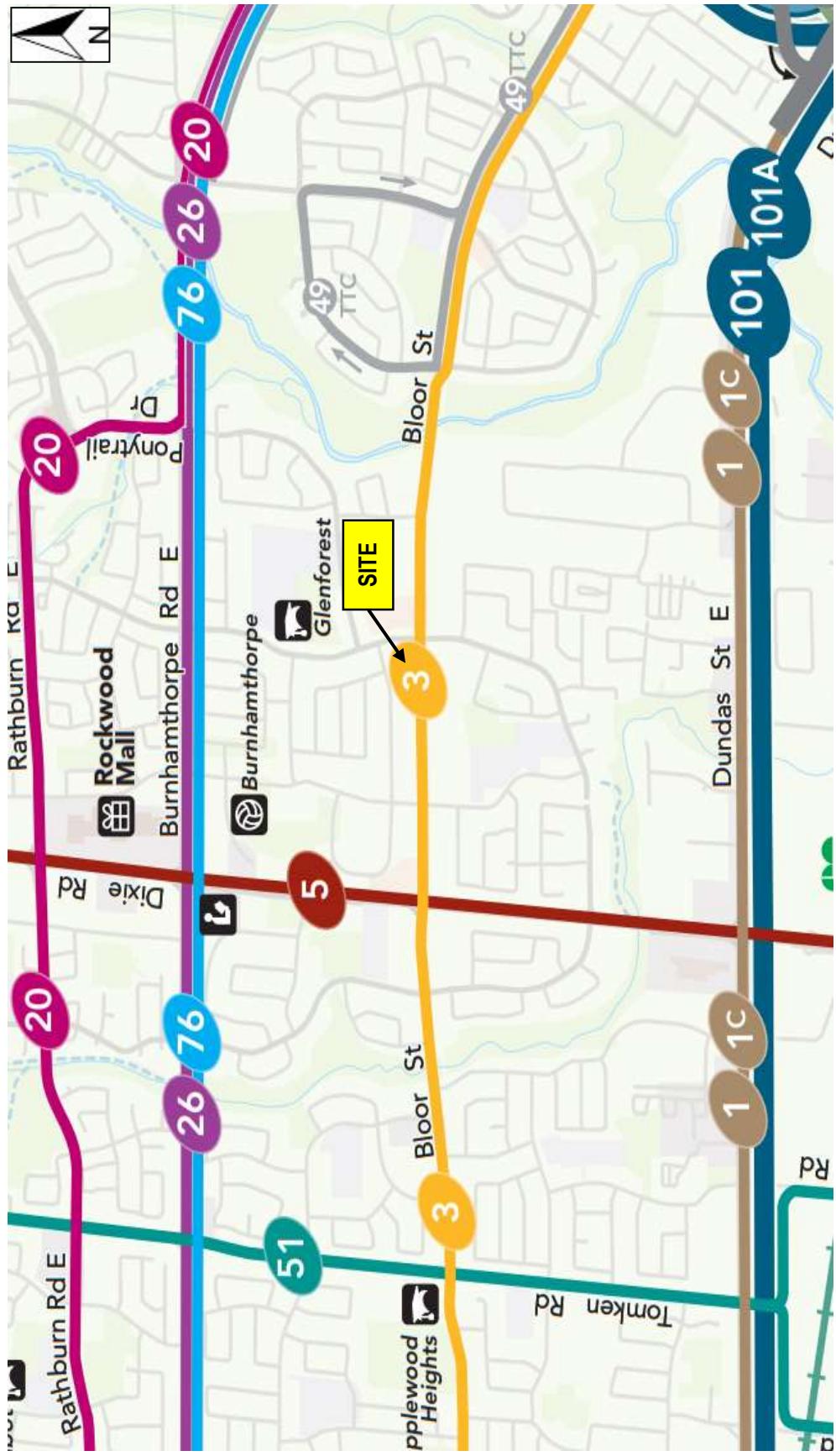




Figure 4: Transit Map



TRAFFIC IMPACT STUDY

Proposed Residential Development
1785 Bloor Street, Mississauga, ON

Figure 5: Existing Traffic Volumes, Weekday AM and PM Peak Hours

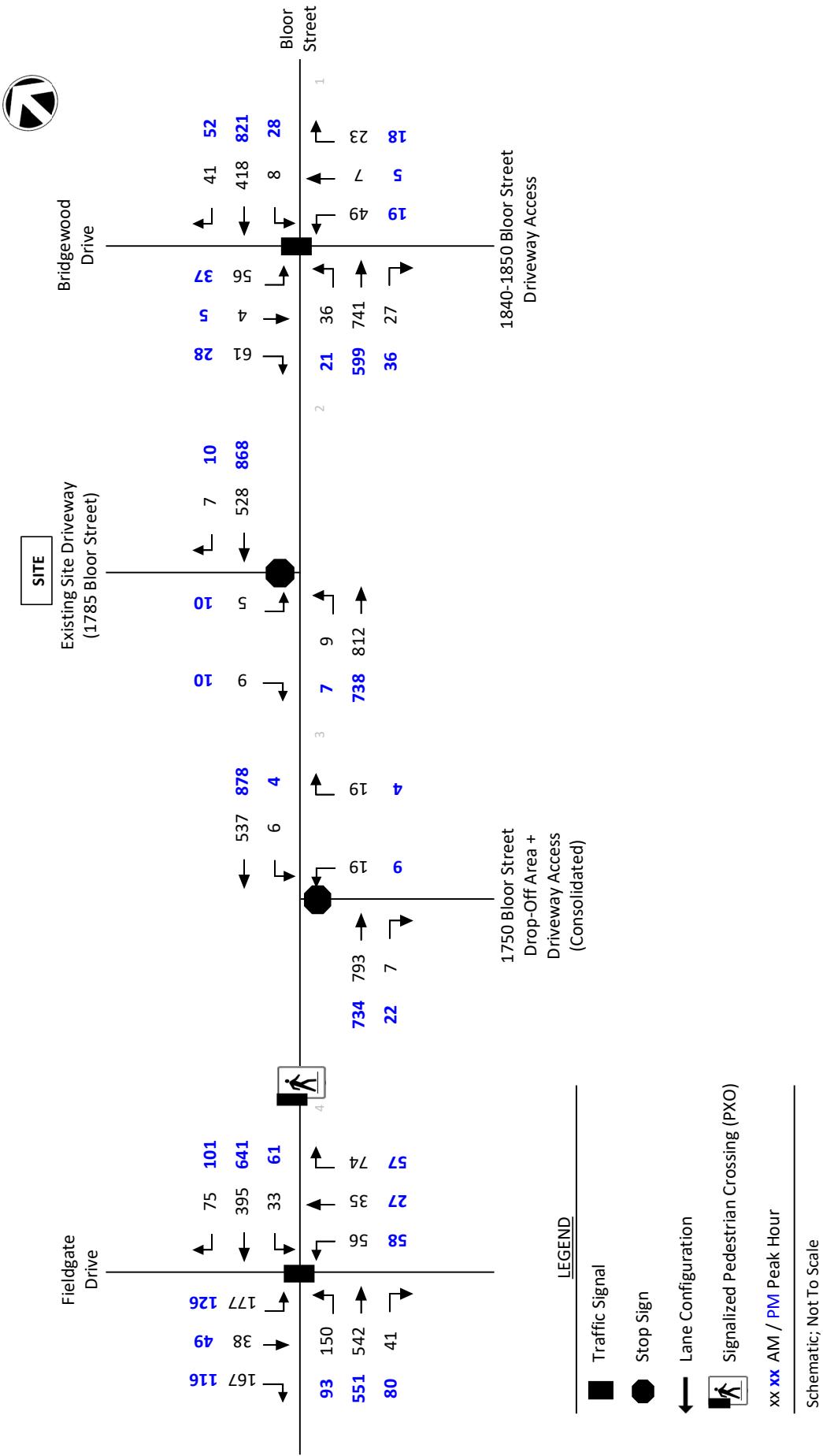
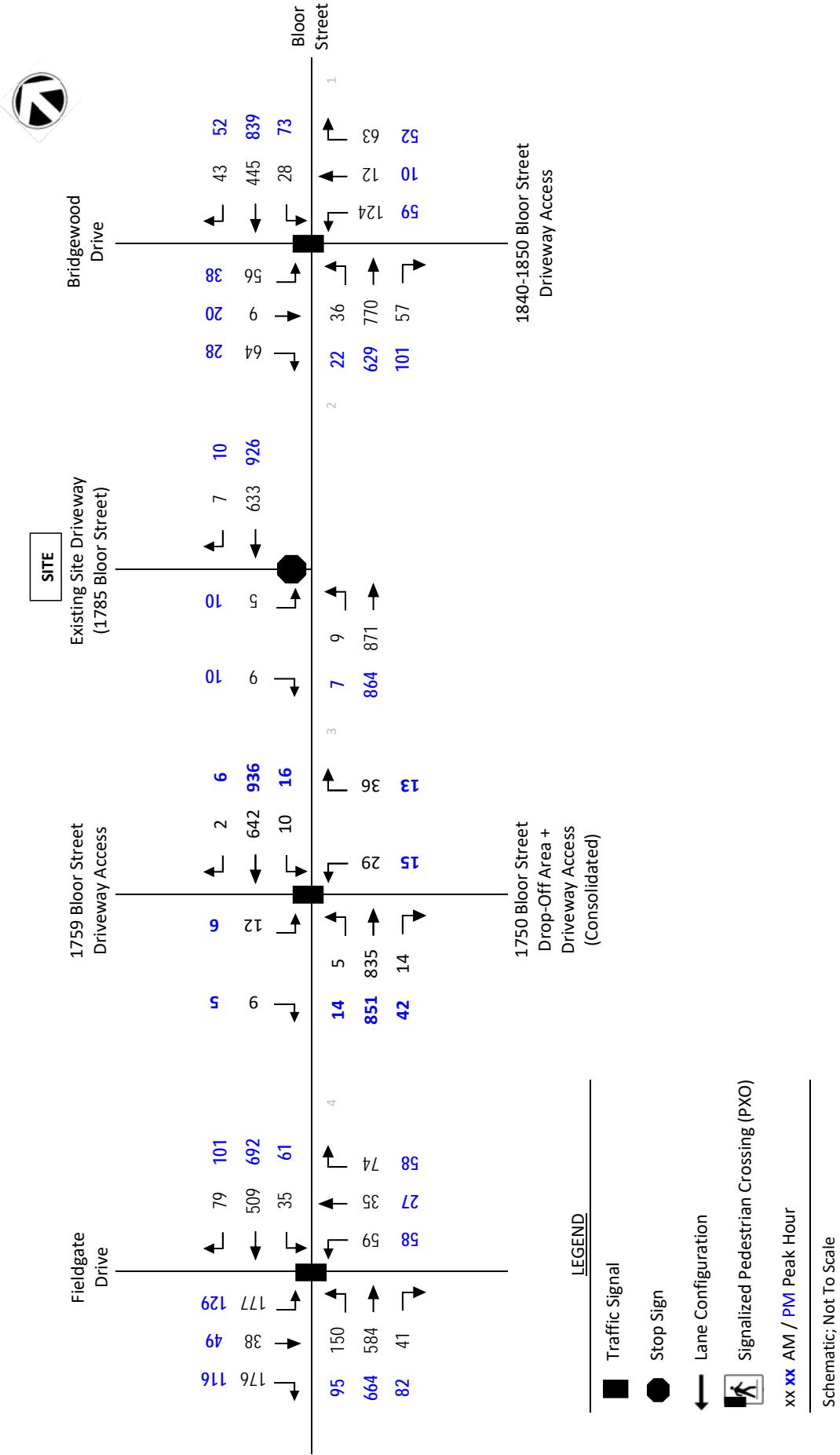


Figure 6: 2027 Background Traffic Volumes, Weekday AM and PM Peak Hours





TRAFFIC IMPACT STUDY

**Proposed Residential Development
1785 Bloor Street, Mississauga, ON**

Figure 7: Site Traffic Assignment, Weekday AM and PM Peak Hours

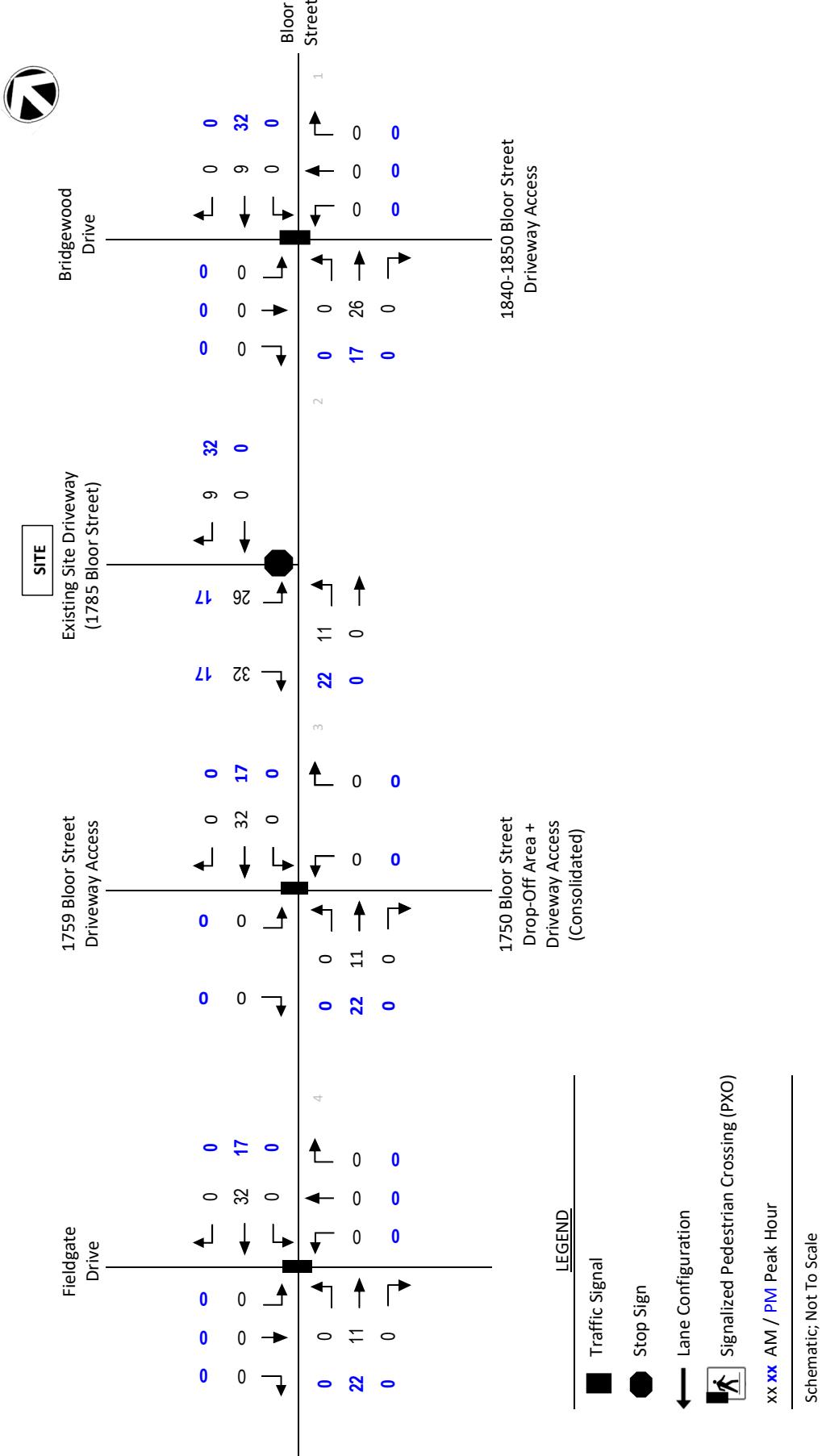
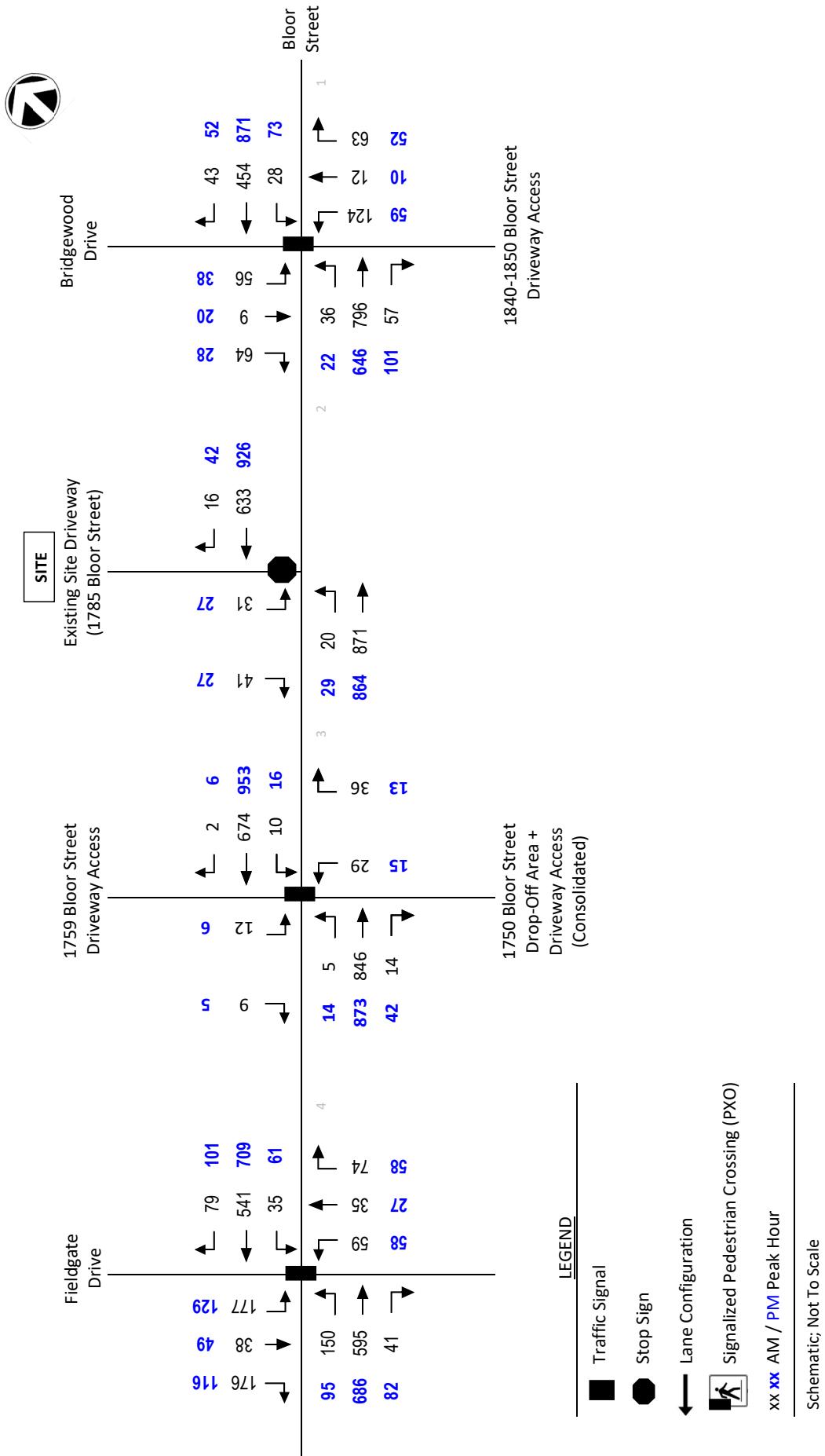


Figure 8: 2027 Total Traffic Volumes, Weekday AM and PM Peak Hours



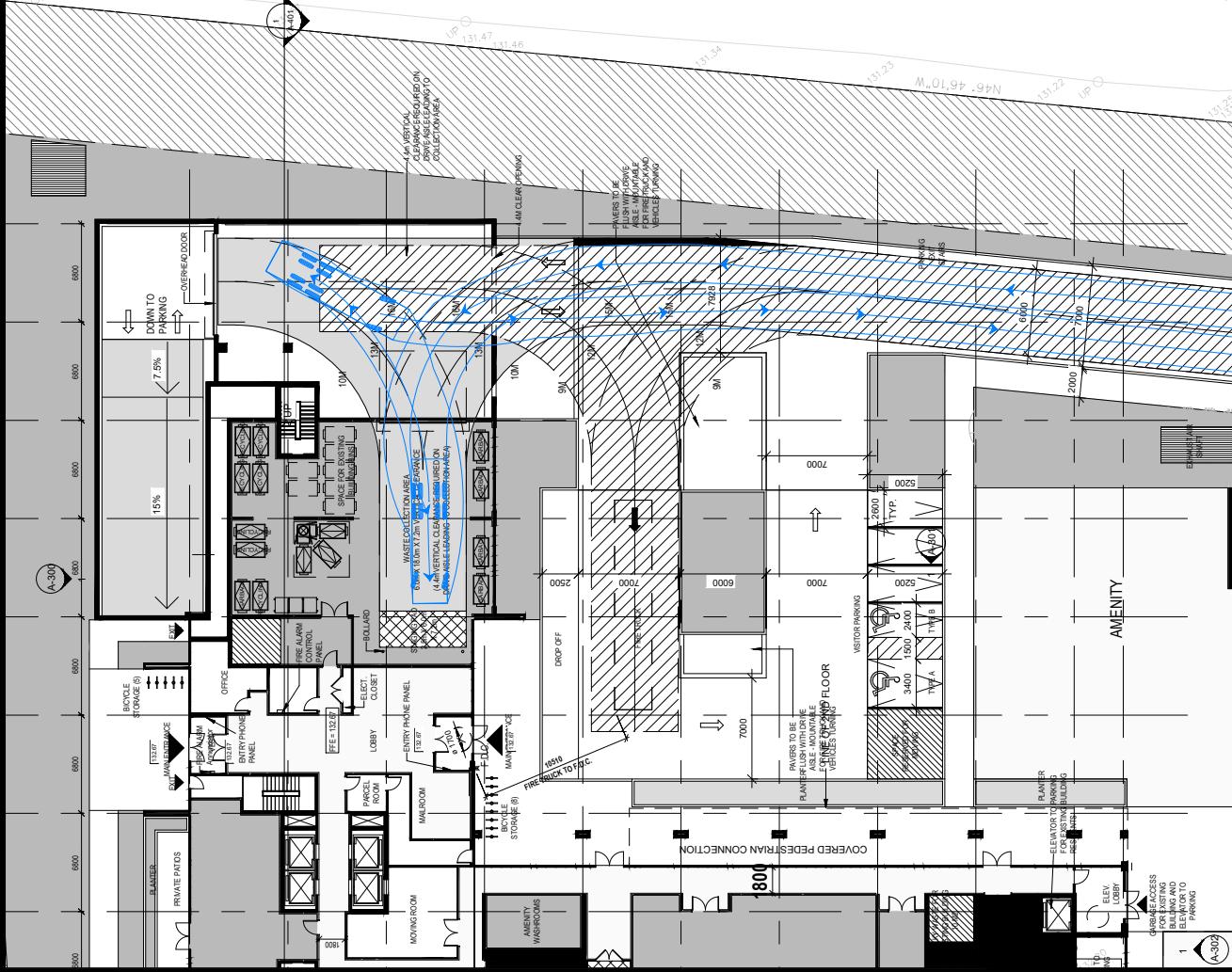
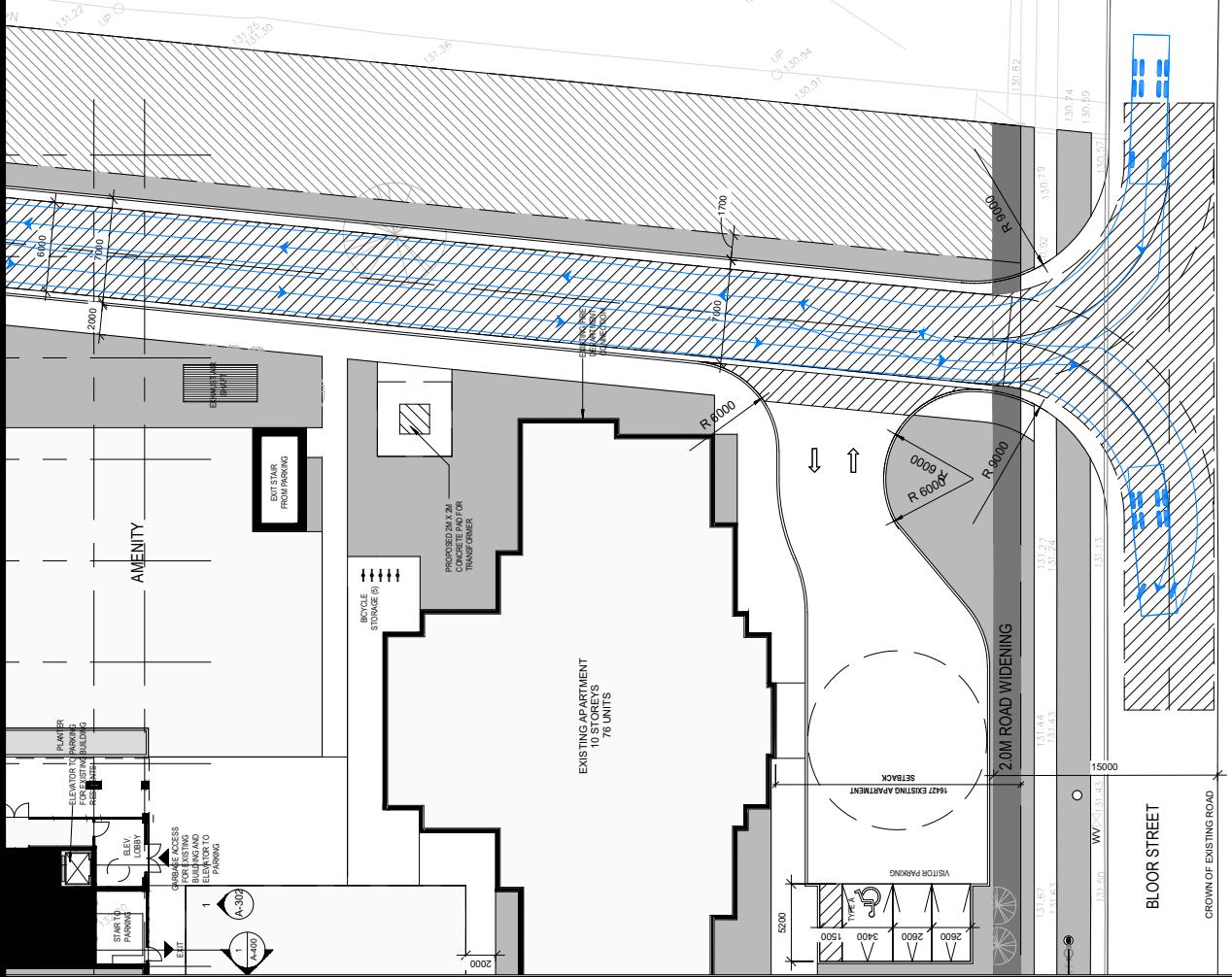
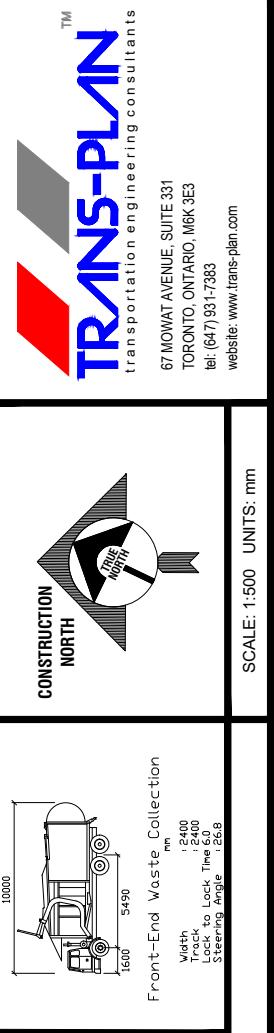
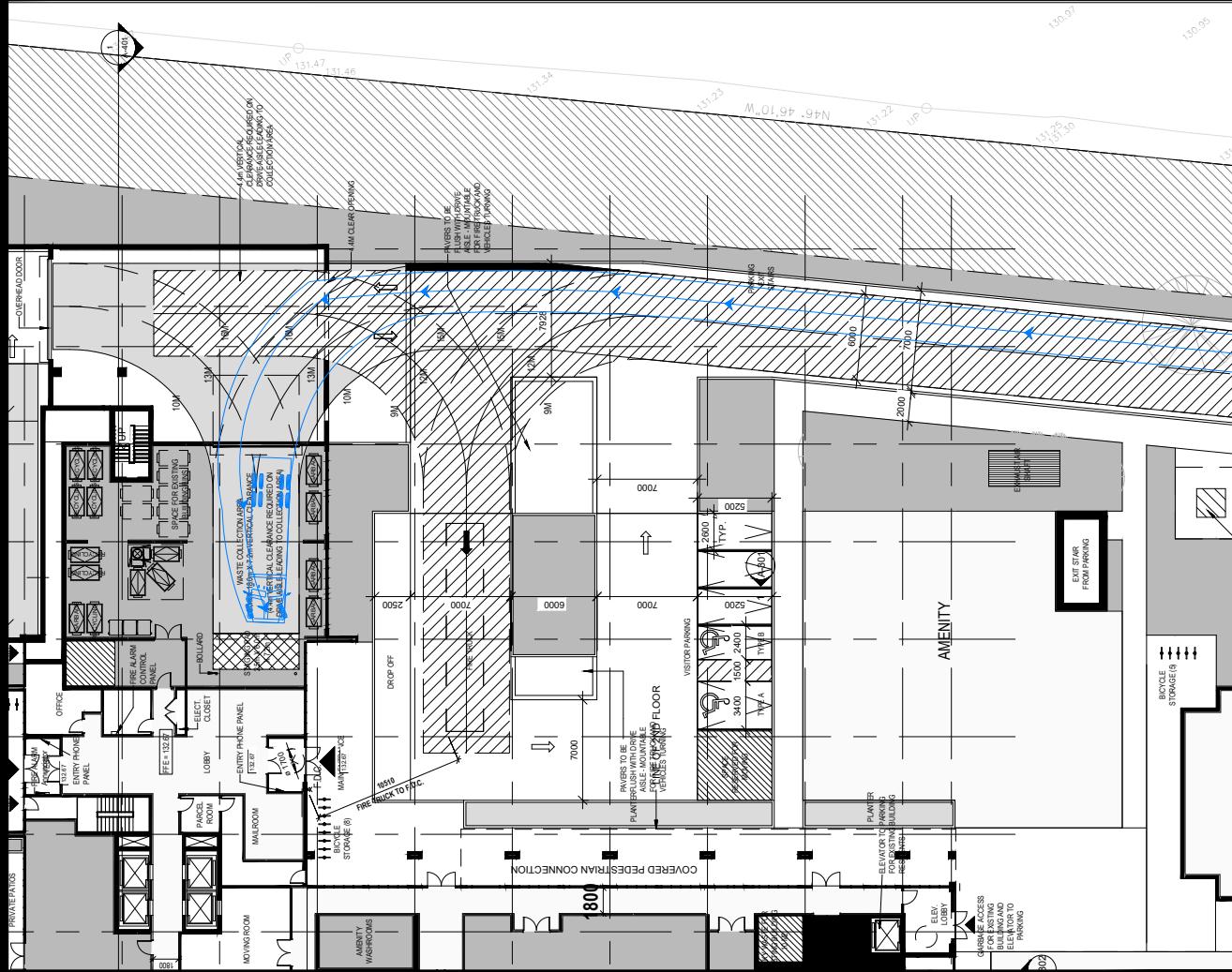


Figure 9 - Waste Collection Vehicle Circulating Site

**PROPOSED EXPANSION TO EXISTING RESIDENTIAL BUILDING,
1785 Bloor Street
MISSISSAUGA, ON**

Source: onespace unlimited inc.





IVY transportation engineering consultants

67 MOWAT AVENUE, SUITE 331
TORONTO, ONTARIO, M6K 3E3
tel.: 647/931-7383

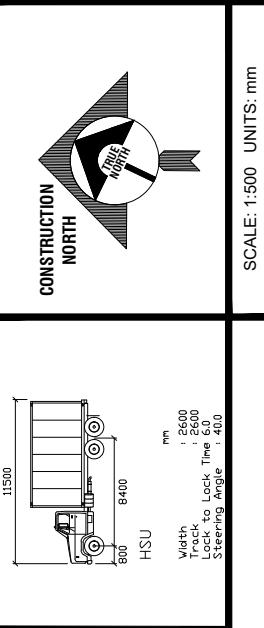


Figure 10 - Loading Vehicle (HSU) Entering the Site and Accessing Loading Area

**PROPOSED EXPANSION TO EXISTING RESIDENTIAL DEVELOPMENT,
1785 BLOOR STREET,
MISSISSAUGA, ON**

Source: onespace unlimited inc.

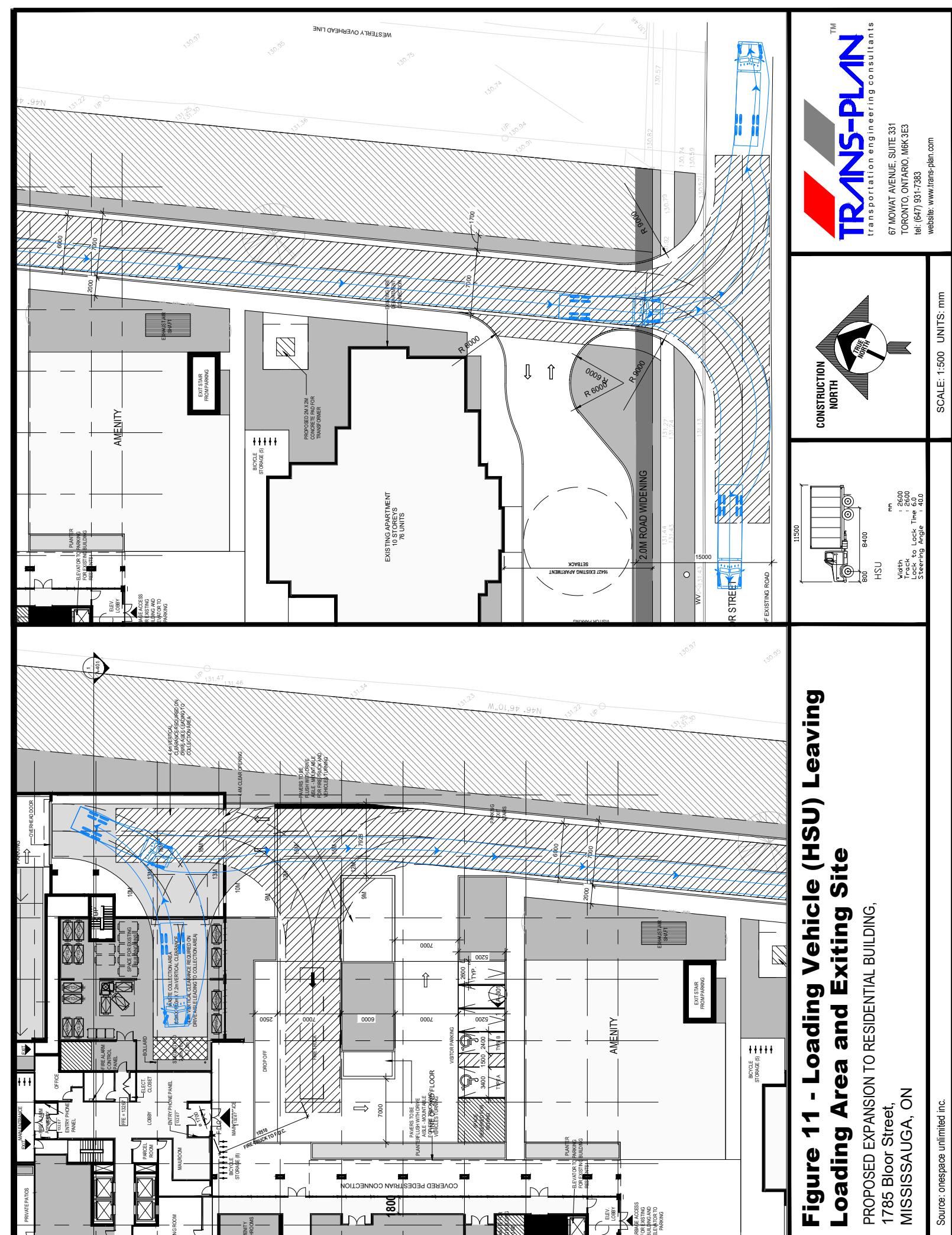
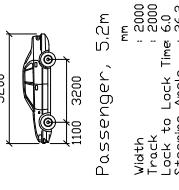
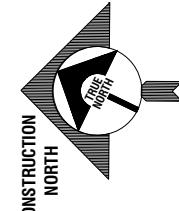


Figure 11 - Loading Vehicle (HSU) Leaving Loading Area and Exiting Site

**PROPOSED EXPANSION TO RESIDENTIAL BUILDING,
11785 Bloor Street,
MISSISSAUGA, ON**

Source: onespace unlimited inc.

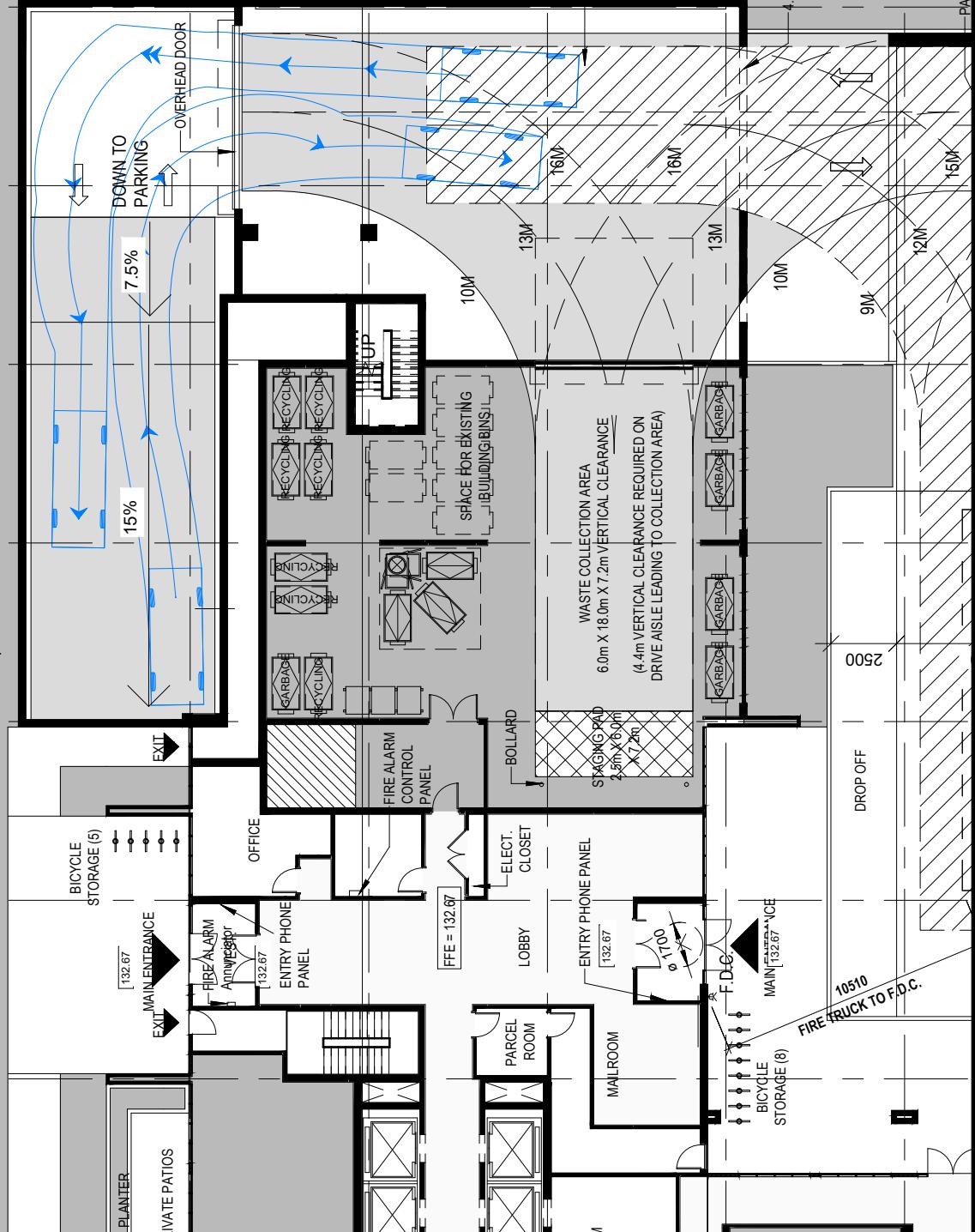


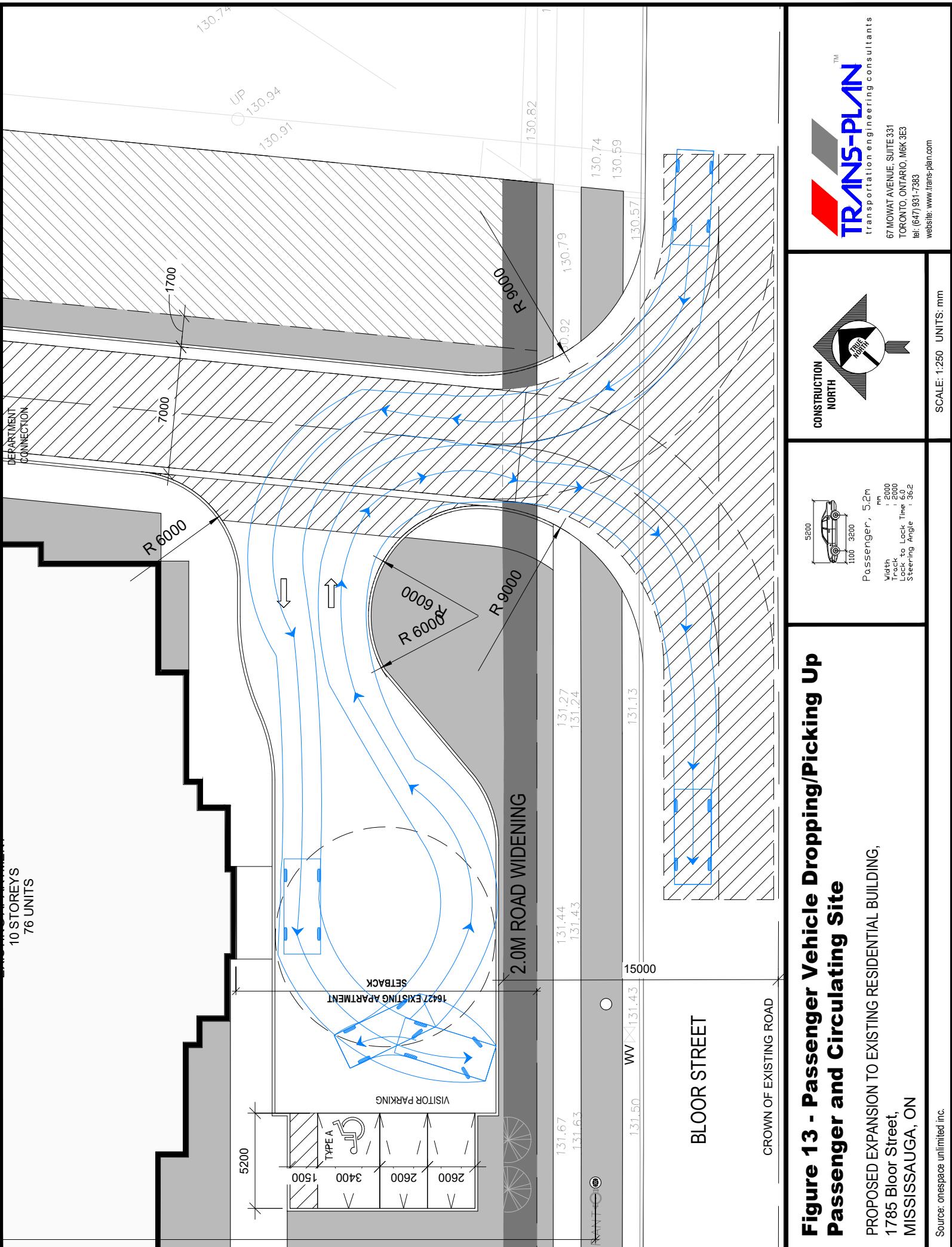
SCALE: 1:250 UNITS: mm

Figure 12 - Passenger Vehicle, Entering and Exiting Ramp

PROPOSED EXPANSION TO EXISTING RESIDENTIAL BUILDING,
1785 Bloor Street,
MISSISSAUGA, ON

Source: onespace unlimited inc.





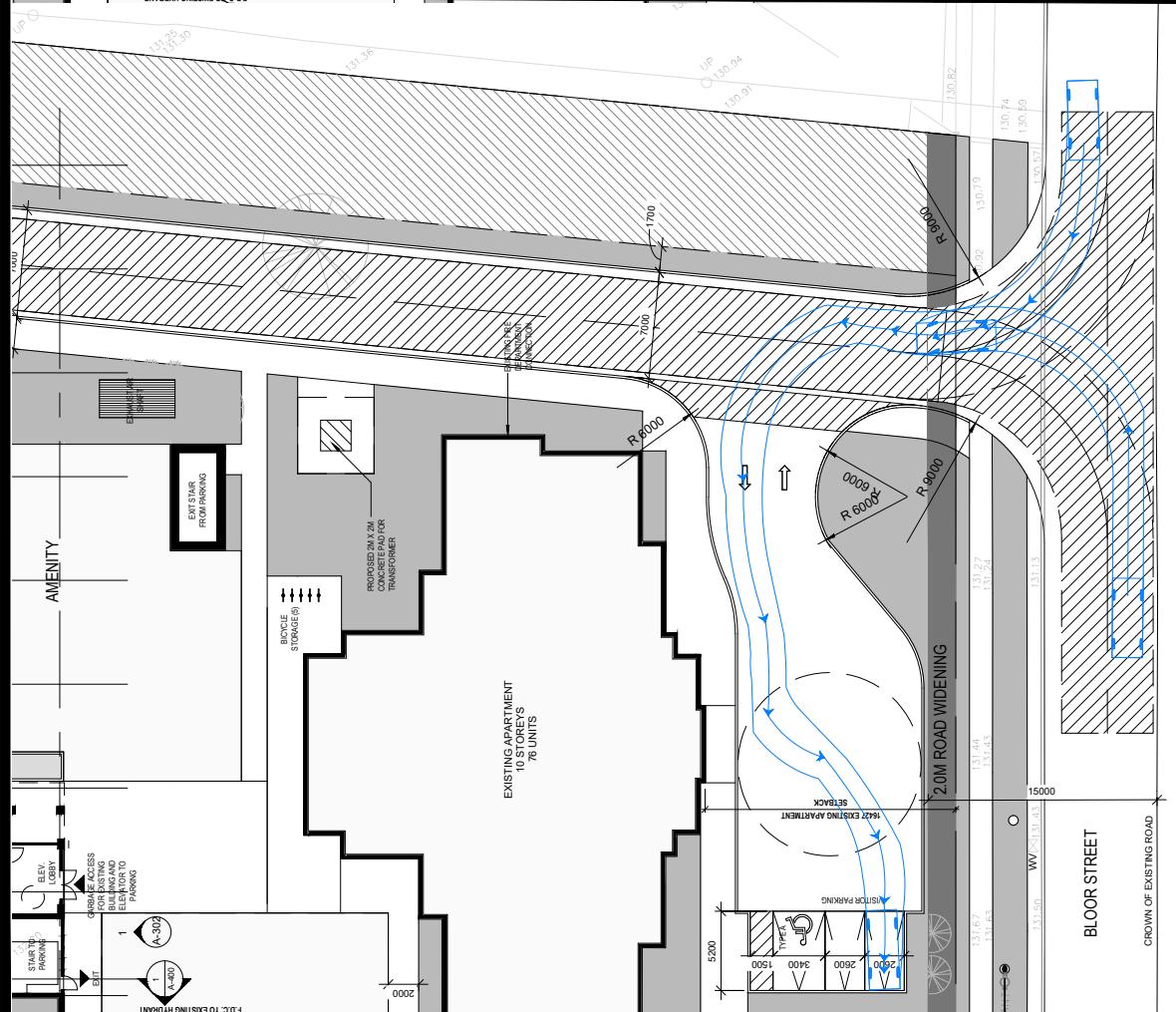
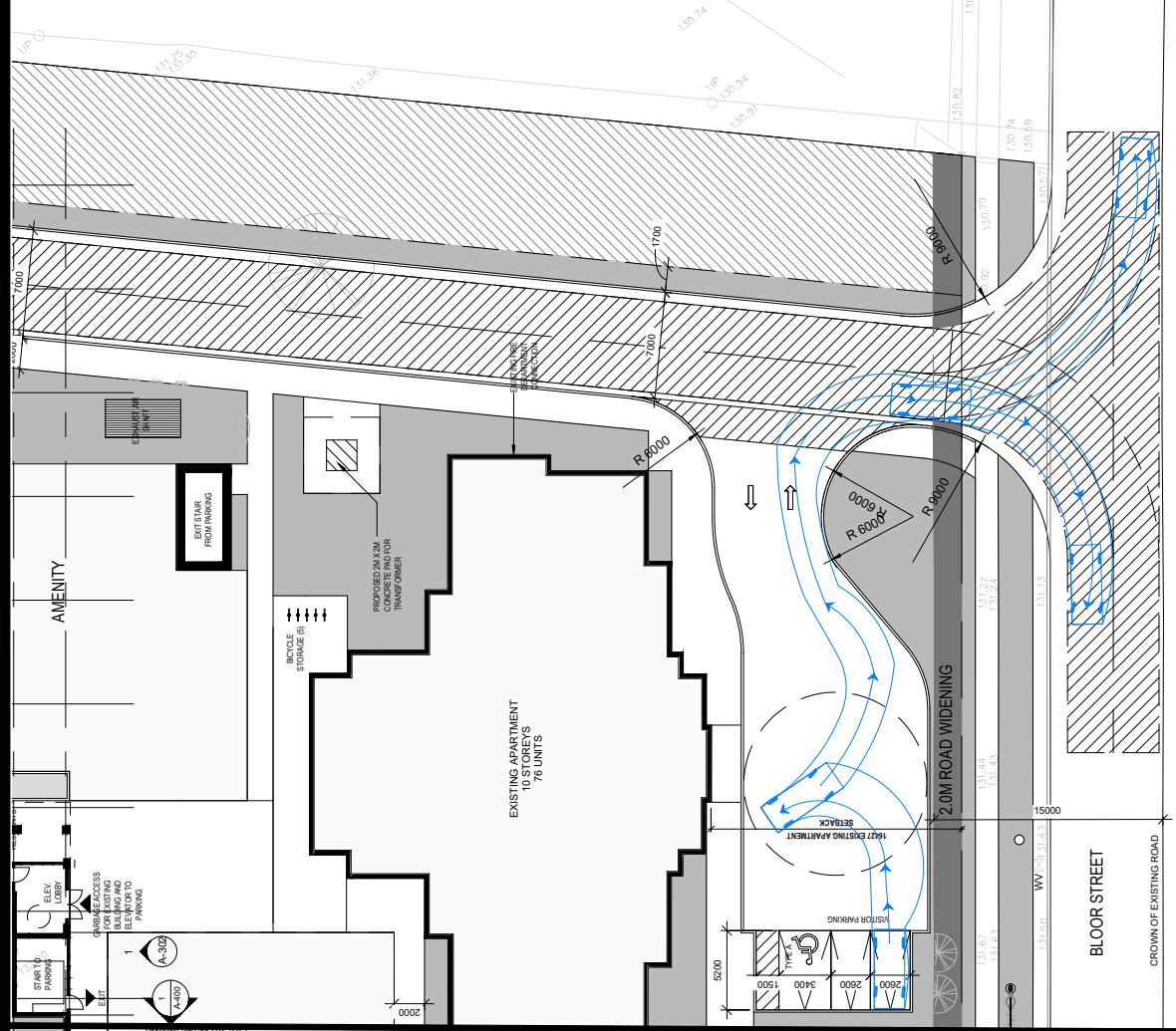


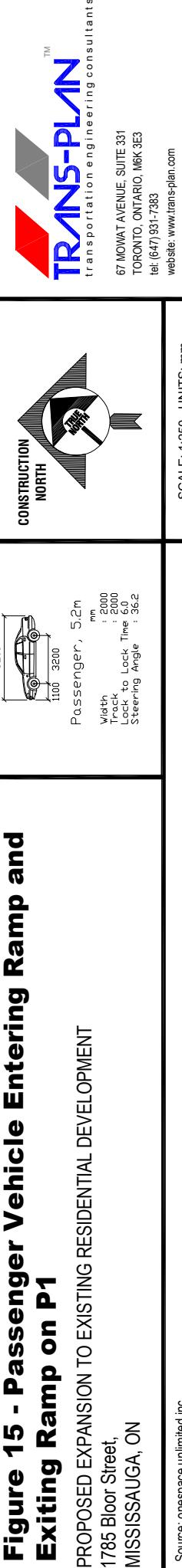
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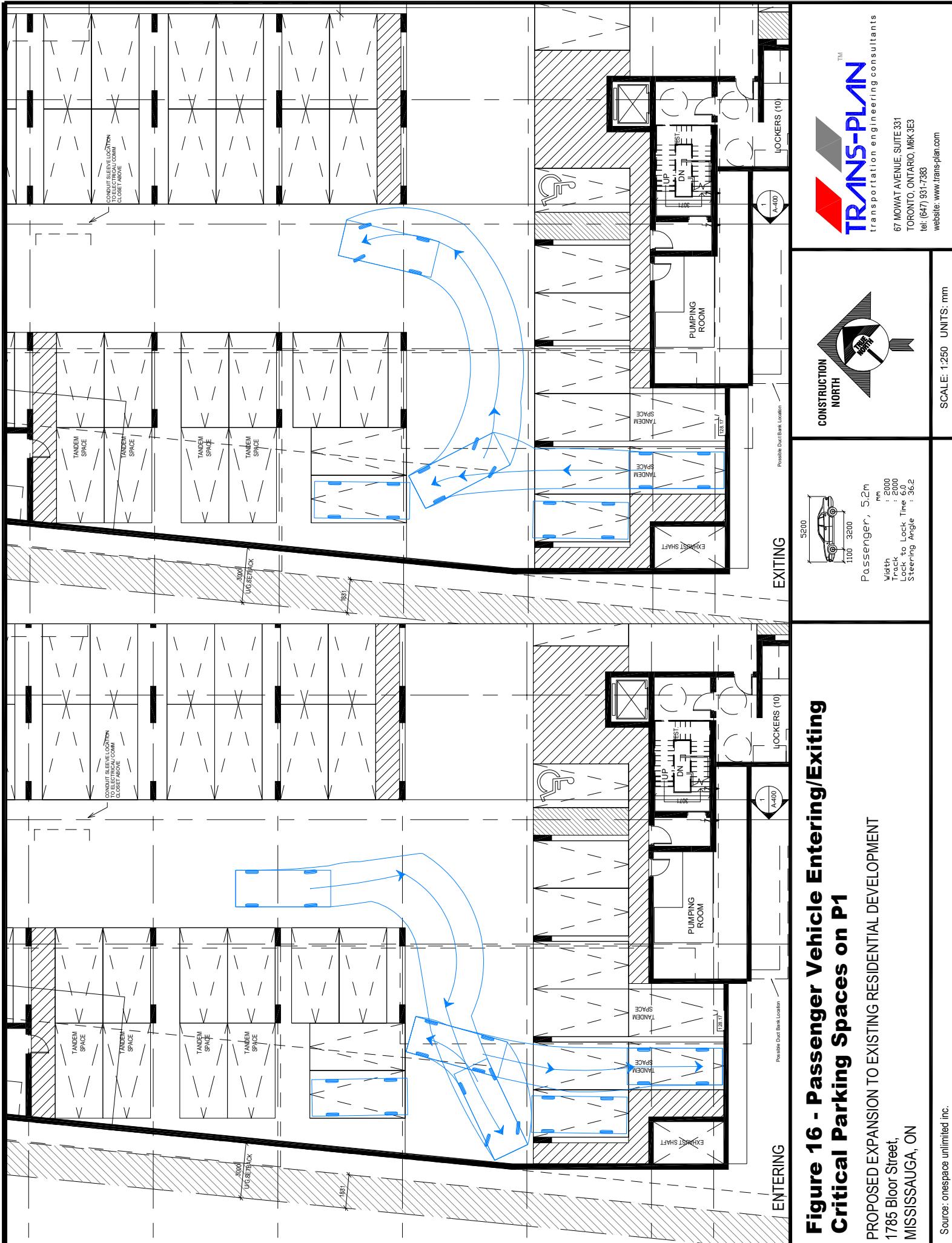
Figure 14 - Passenger Vehicle Entering/Exiting Site and Parking In Front of Building

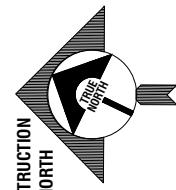
PROPOSED EXPANSION TO EXISTING RESIDENTIAL BUILDING,
1785 Bloor Street,
MISSISSAUGA, ON

Source: onespace unlimited inc.







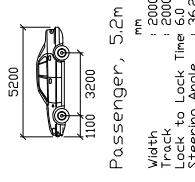


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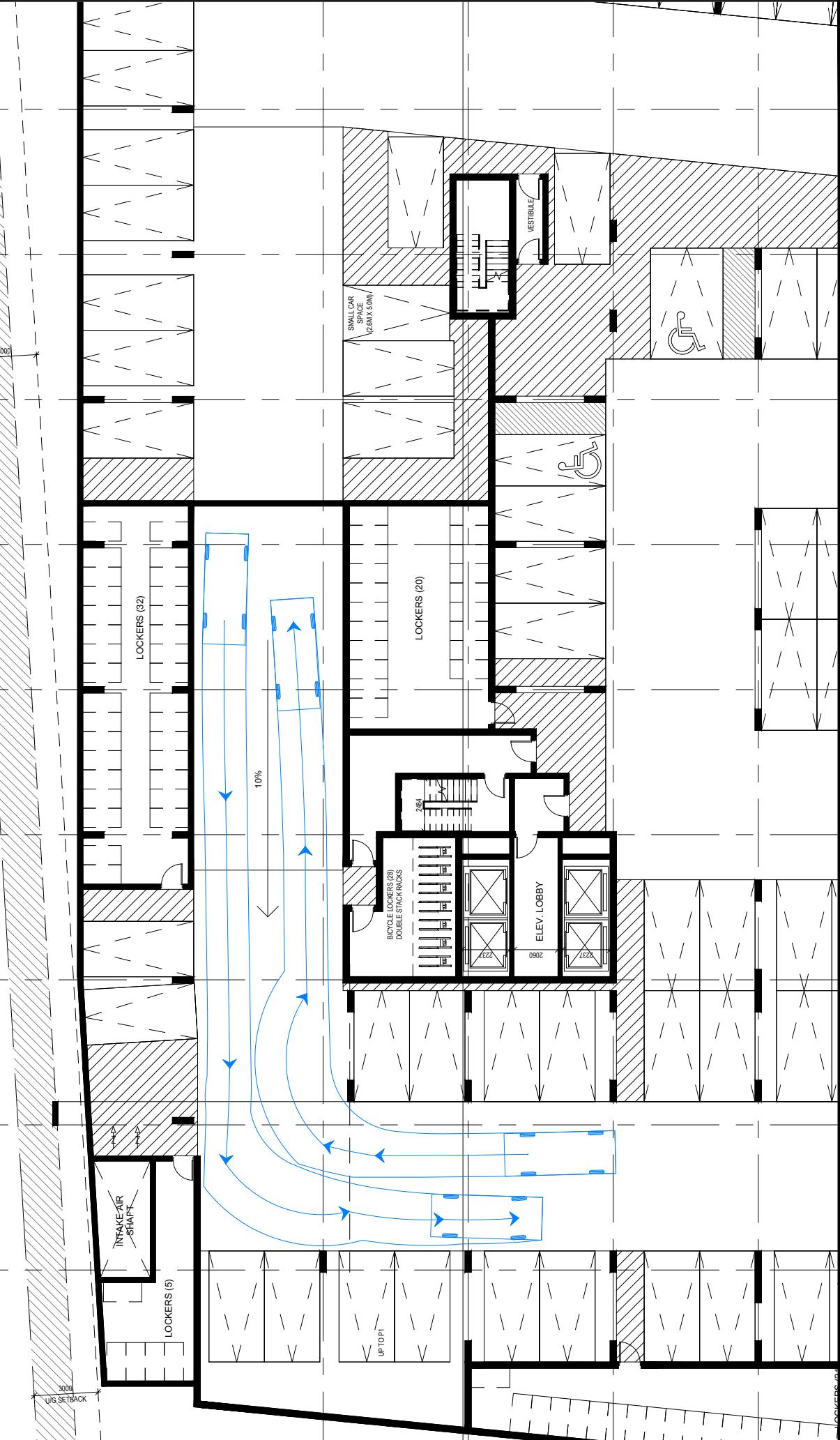
Figure 17 - Passenger Vehicle Entering and Exiting Ramp on P2

PROPOSED EXPANSION TO EXISTING RESIDENTIAL BUILDING
1785 Bloor Street,
MISSISSAUGA, ON

Source: onespace unlimited inc.



Passenger, 5.2m
Width : 2000
Track : 2000
Lock to Lock Time : 6.0
Steering Angle : 36.2



APPENDICES

Appendix A – Turning Movement Counts and Signal Timing Plans

Appendix B – Background Traffic Information

Appendix C – Capacity and Queue Analysis Sheets

Appendix D – Pedestrian Crossover (PXO) Survey

Appendix E – City of Mississauga By-law 0225-2007

Appendix F – Parking Utilization Survey Results



APPENDIX A

Turning Movement Counts & Signal Timing Plans

Trans-Plan Transportation Inc.

Site ID Code:

Intersection Location:

Municipality:

Count Date:

Weather and Temperature:

Surveyor:

Bloor Street and Fieldgate Drive
Mississauga, Ontario
Thursday, November 21, 2021

TP

AM	NORTH APPROACH Fieldgate Dr												EAST APPROACH Bloor St												SOUTH APPROACH Fieldgate Dr												WEST APPROACH Bloor St												Grand Total	
	CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			Total	Total			
	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	Peds	Peds																		
7:00	27	5	19	0	1	0	0	0	3	55	3	44	1	0	0	0	0	8	58	9	3	11	1	1	0	0	0	0	2	27	17	66	0	2	6	0	1	93	233											
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7:30	41	3	26	1	0	1	0	0	0	4	76	2	75	5	0	4	0	0	0	91	20	8	18	0	2	0	0	0	0	7	55	16	113	3	3	2	3	0	0	2	142	364								
7:45	39	3	20	2	0	1	0	0	0	4	69	3	91	7	0	6	0	0	1	0	4	112	17	9	19	0	1	0	0	0	0	5	51	31	129	4	1	3	1	0	0	1	170	402						
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PM																																																		
15:00	22	11	24	0	1	1	0	0	0	8	67	11	145	20	1	5	0	0	0	13	195	12	13	10	2	0	0	0	0	0	5	42	21	121	7	2	6	0	0	0	0	10	167	471						
15:15	25	13	34	1	0	2	0	0	0	5	80	12	125	17	0	2	0	0	0	9	165	12	17	8	1	0	0	0	0	0	8	46	35	120	17	0	3	1	0	0	0	8	184	475						
15:30	19	17	29	0	0	1	0	0	0	8	74	14	152	22	1	2	0	0	0	6	197	15	12	8	0	1	0	0	0	0	4	40	33	89	14	0	7	0	0	0	0	5	148	459						
15:45	29	7	25	0	0	0	0	0	0	10	71	12	185	20	0	7	0	0	0	13	237	10	8	10	0	0	0	0	0	0	4	32	35	133	10	0	2	0	0	0	0	5	185	525						
16:00	38	15	35	0	1	0	0	0	1	7	97	15	145	19	0	2	0	0	0	11	192	12	6	12	1	0	0	0	0	0	5	36	29	128	20	1	4	2	0	0	0	4	188	513						
16:15	29	9	20	0	0	3	0	0	0	8	69	7	176	27	0	2	0	0	0	7	219	15	5	16	1	0	0	0	0	0	6	43	22	147	17	0	1	1	0	1	0	5	521							
16:30	27	11	24	0	0	0	0	0	0	5	67	13	151	26	0	2	0	0	0	6	198	17	8	15	0	1	0	0	0	0	7	48	16	127	22	1	1	0	0	0	0	2	169	482						
16:45	32	13	34	0	0	0	0	0	0	15	94	26	159	28	0	4	1	0	0	11	229	12	7	14	0	0	0	0	0	0	9	42	24	141	18	0	2	0	0	0	0	0	19	204	569					
17:00	21	9	23	0	0	0	0	0	0	12	65	15	170	15	0	2	0	0	0	13	215	10	5	12	0	1	0	0	0	0	6	34	22	121	15	0	2	1	0	0	0	0	1	162	476					
17:15	29	14	25	0	0	1	0	0	1	9	79	16	154	20	0	3	0	0	0	11	204	11	5	8	0	0	0	0	0	0	3	27	25	127	18	0	3	0	0	0	0	5	178	488						
17:30	27	14	35	0	0	0	0	0	0	0	76	11	196	24	0	1	0	0	0	5	237	12	9	9	0	1	0	0	0	0	6	37	25	125	15	0	4	1	0	0	0	0	1	174	524					
17:45	26	11	26	0	0	0	0	0	0	6	69	13	146	18	0	3	0	0	0	17	197	9	4	6	0	0	0	0	0	0	11	30	28	142	17	0	2	1	0	0	0	0	0	3	193	489				



Turning Movement Count Diagram

Intersection: Bloor Street and Fieldgate Drive

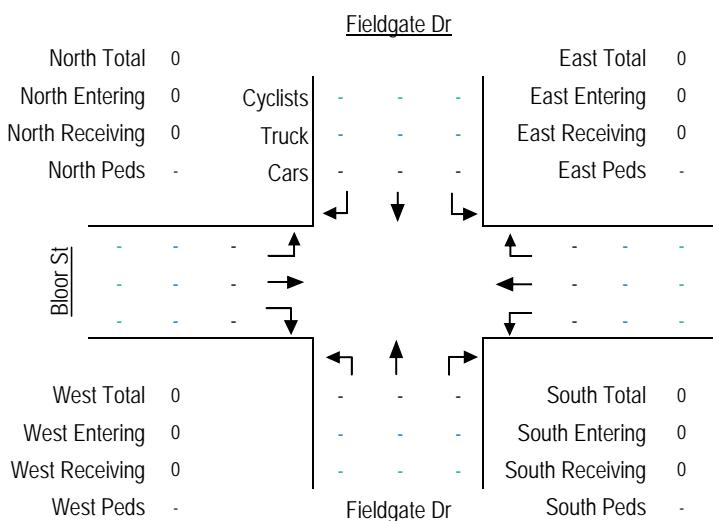
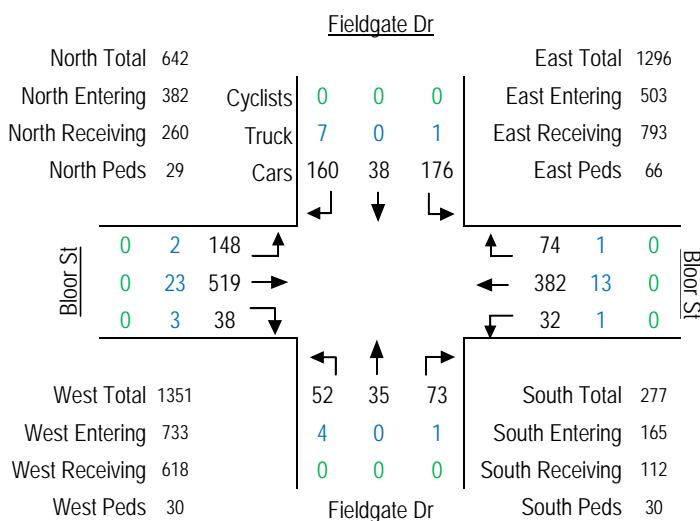
Municipality: Mississauga, Ontario

Intersection ID:

Date: Thursday, November 21, 2021

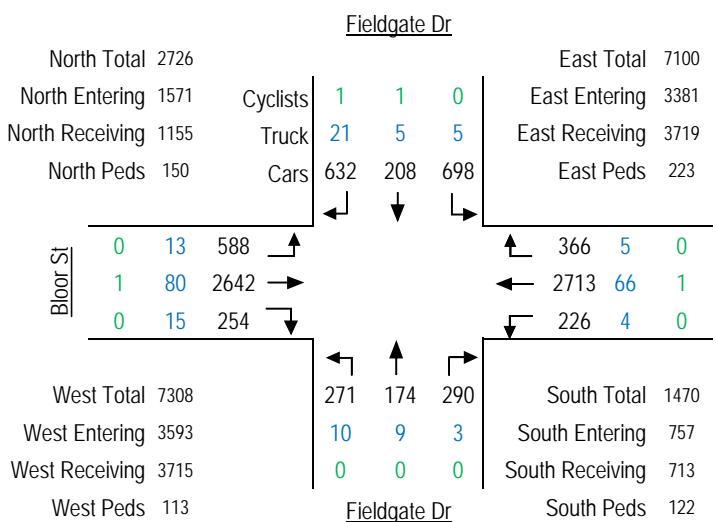
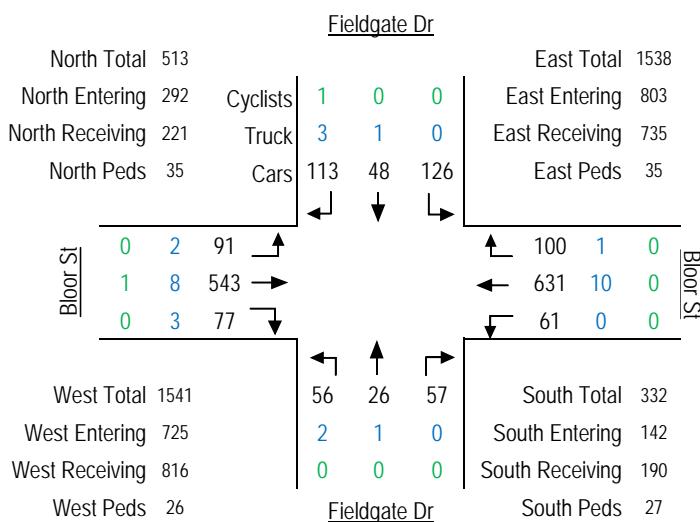
AM Peak Hour: 8:00 to 9:00

MD Peak Hour: - to -



PM Peak Hour: 16:00 to 17:00

Total Count



Trans-Plan Transportation Inc.

Site ID Code:

Intersection Location:

Municipality:

Count Date:

Weather and Temperature:

Surveyor:

Bloor Street and Bridgewood Drive
Mississauga, Ontario
Thursday, November 21, 2021

TP

AM	NORTH APPROACH Bridgewood Dr.												EAST APPROACH Bloor St.												SOUTH APPROACH Access Bloor St.												WEST APPROACH Bloor St.								
	CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			Total	Total							
	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	Peds	Total	Total												
7:00	8	0	7	0	0	1	0	0	2	18	1	47	2	0	2	0	0	0	3	55	5	0	0	0	0	0	0	0	0	2	13	2	101	3	1	5	0	0	2	114	200				
7:15	6	0	5	0	0	1	0	0	4	16	1	62	1	0	4	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	0	2	14	1	139	1	1	3	0	0	0	148	248		
7:30	8	0	9	0	0	1	0	0	0	20	4	65	3	0	2	0	0	0	0	1	75	11	2	2	0	0	0	0	0	0	0	2	0	2	170	2	0	2	0	0	0	185	301		
7:45	13	1	6	2	0	2	0	0	0	26	0	93	4	0	1	0	0	1	0	2	101	10	1	6	1	0	1	0	0	0	0	3	22	2	191	2	2	3	0	0	0	207	356		
8:00	10	0	6	0	0	1	0	0	0	3	20	2	93	5	1	5	0	0	0	0	2	106	12	1	3	0	0	0	0	0	0	0	3	19	3	192	2	0	5	1	0	0	206	353	
8:15	13	0	20	0	0	0	0	0	0	2	35	1	110	14	0	3	0	0	0	0	0	128	15	1	7	1	0	0	0	0	0	0	0	1	25	5	193	5	1	7	0	0	0	215	403
8:30	18	0	16	0	0	1	0	0	0	4	39	0	99	15	0	2	1	0	0	0	6	123	9	5	6	1	0	0	0	0	0	0	2	23	22	164	9	0	3	0	0	0	205	390	
8:45	15	3	18	0	0	0	0	0	0	4	40	3	104	6	1	2	0	0	0	0	1	117	9	0	7	2	0	0	0	0	0	0	4	22	4	171	10	1	6	0	0	0	195	374	
9:00	15	1	5	0	0	0	0	0	0	7	26	1	95	9	0	3	0	0	0	2	111	2	0	5	0	0	0	0	0	0	0	3	145	7	1	6	0	0	0	159	309				
9:15	5	0	5	0	0	0	0	0	0	10	1	98	4	0	3	1	0	0	0	0	107	10	0	1	0	0	0	0	0	0	0	11	4	115	6	0	1	0	0	0	0	126	254		
PM																																				24									
15:00	5	2	11	0	0	1	0	0	1	20	8	142	7	0	3	0	0	0	0	3	163	13	3	0	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	13	165			
15:15	20	3	19	3	1	1	0	0	0	7	54	4	144	14	0	1	0	0	0	12	176	6	1	4	1	0	0	0	0	0	0	3	15	9	126	7	1	2	0	0	0	23	168		
15:30	10	4	7	0	0	0	0	0	0	5	26	4	190	9	0	4	1	0	0	2	219	5	0	5	0	0	0	1	0	0	0	7	18	6	112	10	4	4	0	0	0	140	403		
15:45	9	1	7	0	0	0	0	0	0	4	21	4	218	15	0	5	0	0	0	4	246	7	1	2	0	0	0	0	0	0	0	8	10	8	144	12	0	2	0	0	0	5	171	448	
16:00	8	0	3	0	0	0	0	0	0	1	12	12	179	11	0	4	0	0	0	3	209	7	0	4	0	0	0	0	0	0	0	3	14	7	139	9	0	3	0	0	0	394	394		
16:15	6	1	7	0	0	0	0	0	0	2	16	5	205	8	0	3	1	0	0	0	3	225	3	1	2	0	0	0	0	0	0	0	3	9	2	169	12	0	2	0	0	0	187	437	
16:30	9	1	7	0	0	0	0	0	0	1	18	6	175	8	0	3	0	0	0	5	197	5	1	2	0	0	0	0	0	0	0	2	10	6	137	9	0	1	0	0	0	5	158	383	
16:45	8	1	7	0	0	0	0	0	0	5	21	5	216	17	0	3	0	0	0	2	243	2	3	4	0	0	0	0	0	0	0	3	12	4	164	9	0	1	0	0	0	0	179	455	
17:00	6	1	6	0	0	0	0	0	0	3	16	6	189	14	0	2	0	0	0	0	211	4	2	4	0	0	0	0	0	0	0	1	11	8	138	6	0	3	0	0	0	0	156	394	
17:15	17	3	5	0	0	0	0	0	0	3	28	5	181	9	0	2	0	0	0	2	199	3	0	5	0	0	0	0	0	0	0	0	8	4	142	13	0	2	1	0	0	0	163	398	
17:30	6	0	10	0	0	0	0	0	0	2	18	12	226	12	0	2	0	0	0	1	253	10	0	5	0	0	0	0	0	0	0	0	2	17	5	145	7	0	4	1	0	0	4	165	453
17:45	7	1	6	0	0	0	0	0	0	14	9	171	8	0	3	0	0	0	1	192	1	0	8	0	0	0	0	0	0	0	0	2	11	7	145	10	0	2	0	0	0	0	1	165	382



Turning Movement Count Diagram

Intersection: Bloor Street and Bridgewood Drive

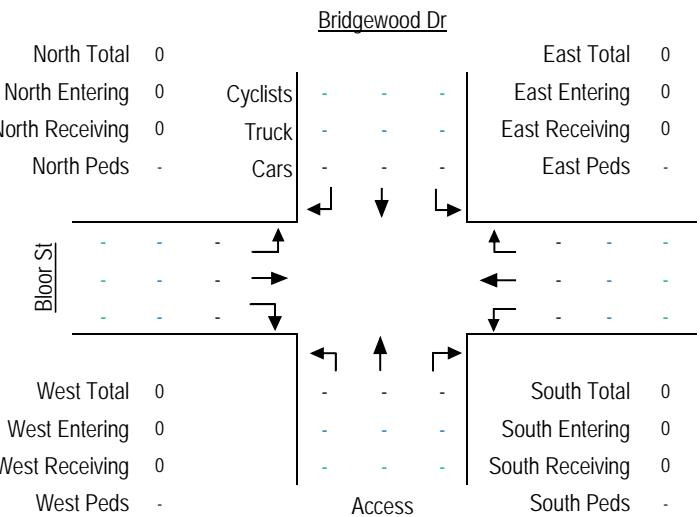
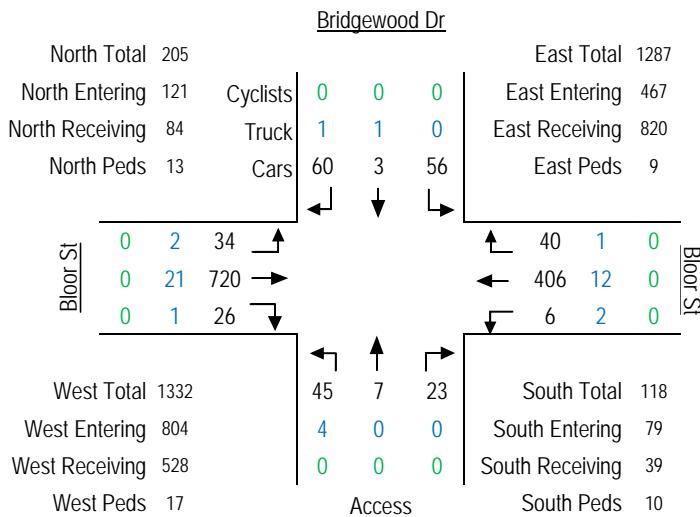
Municipality: Mississauga, Ontario

Intersection ID:

Date: Thursday, November 21, 2021

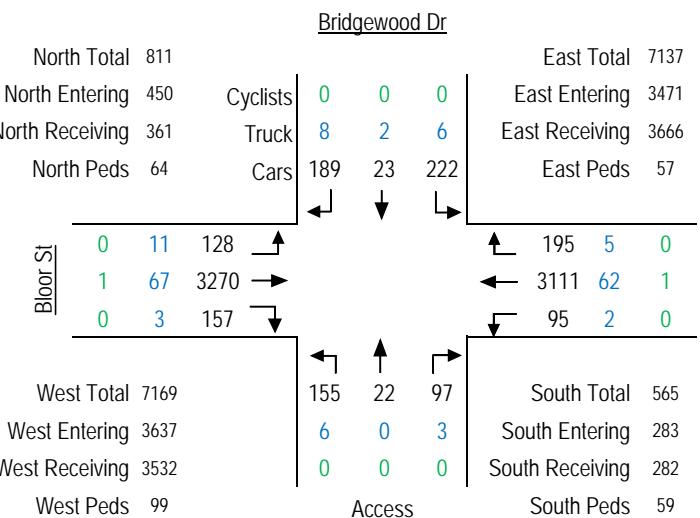
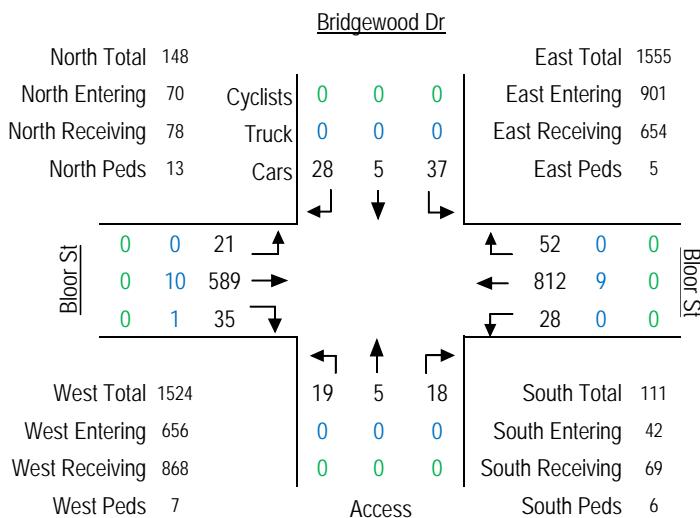
AM Peak Hour: 8:00 to 9:00

MD Peak Hour: - to



PM Peak Hour: 16:45 to 17:45

Total Count



In/Out Access Count

Site: 1785 Bloor Street, Mississauga
 Date Thursday, November 25, 2021

Start Time	In	Out	Hourly Total	SBL	SBR	EBL	WBR
6:00	1	1	11	1			1
6:15	1	2		1	1	1	
6:30	1	2			2		1
6:45	1	2			2	1	
7:00	1	1	21		1	1	
7:15	1	2		1	1	1	
7:30	3	9		6	3	3	
7:45	1	3		1	2	1	
8:00	1	4	29	2	2	1	
8:15	4	4		1	3	1	3
8:30	4	5		2	3	2	2
8:45	4	3		2	1	3	1
9:00	4	2	16		2	3	1
9:15	1	4		2	2	1	
9:30	0	3					
9:45	1	1					
				SBL	SBR	EBL	WBR
15:00	9	7	38	4	3	3	6
15:15	5	4			4	2	3
15:30	1	5		3	2	1	
15:45	3	4		3	1	2	1
16:00	3	1	30		1	1	2
16:15	6	6		1	5	4	2
16:30	5	5		2	3	3	2
16:45	3	1		1		1	2
17:00	3	2	23		2	1	2
17:15	2	1			1	1	1
17:30	5	1			1	3	2
17:45	7	2		1	1	5	2



Signal Timing Report

Runtime: 2021-10-07 13:32:13

Signal Timing Report

Runtime: 2021-11-24 15:31

Trans-Plan Transportation Inc.

Site ID Code:

International contacts:

Intersection

Municipality:

Count Date:

Weather and

Wealth

Surveyor:

1785 Bloor Street
Mississauga, Ontario
Wednesday, August 30, 2023
AM: Partly then mainly cloudy,
TP

AM	NORTH APPROACH 1785 Bloor Access						EAST APPROACH Bloor St.						WEST APPROACH Bloor St.						SOUTH APPROACH 1780 Bloor Access																						
	CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			CAR			TRUCKS			CYCLISTS			Total	Grand Total												
	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	L	T	R	Peds	Total	Peds	Total										
7:00	0	0	1	0	0	0	0	0	0	5	6	0	73	0	0	0	0	0	54	1	0	0	0	0	0	0	0	3	5	0	124	1	0	0	0	0	128	193			
7:15	2	0	1	0	0	0	0	0	0	1	4	0	84	0	0	2	0	0	66	3	0	0	0	0	0	0	0	3	6	0	127	1	0	2	0	0	131	207			
7:30	0	0	5	0	0	0	0	0	0	0	4	9	0	81	2	0	1	0	0	65	1	0	0	0	0	0	0	0	8	9	0	126	0	0	4	0	0	131	214		
7:45	0	0	2	0	0	0	0	0	0	0	0	0	10	1	90	0	0	2	0	0	73	0	0	0	0	0	0	0	2	0	4	1	142	0	0	2	0	0	146	233	
8:00	1	0	1	0	0	0	0	0	0	0	4	6	1	95	0	0	1	0	0	77	1	0	1	0	0	0	0	0	2	4	1	137	3	0	4	0	0	146	233		
8:15	1	0	3	0	0	0	0	0	0	0	6	10	0	95	0	0	2	0	0	77	1	0	1	0	0	0	0	0	2	4	0	122	1	0	5	0	0	131	223		
8:30	1	0	2	0	0	0	0	0	0	4	7	0	96	0	0	4	0	0	80	1	0	4	0	0	0	0	0	10	10	1	138	1	0	10	0	0	152	247			
8:45	3	0	2	0	0	0	0	0	0	5	10	0	105	0	0	5	0	0	90	2	0	0	0	0	0	0	0	10	12	1	148	2	0	4	0	0	156	268			
9:00	1	0	1	0	0	0	0	0	0	2	0	0	106	0	0	2	0	0	88	1	0	0	0	0	0	0	0	3	4	0	129	2	0	4	0	0	135	229			
9:15	2	0	1	0	0	0	0	0	0	7	10	0	89	1	0	1	0	0	71	1	0	1	0	0	0	0	0	3	1	104	0	0	3	0	0	108	192				
PM						10:00						10:15						10:30						10:45						11:00						11:15					
10:00	1	0	1	0	0	0	0	0	0	5	7	1	153	1	0	4	0	0	149	0	0	0	0	0	0	0	0	2	1	136	2	0	3	0	0	142	300				
10:15	0	0	0	0	0	0	0	0	0	10	10	0	148	1	0	3	0	0	143	0	0	0	0	0	0	0	0	2	1	116	0	0	5	5	1	119	277				
10:30	0	0	4	0	0	0	0	0	0	8	12	0	173	0	0	2	0	0	165	0	0	0	0	0	0	0	0	12	4	121	4	0	2	0	0	131	320				
10:45	0	0	2	0	0	0	0	0	0	6	8	1	162	0	0	2	0	0	155	0	0	1	0	0	0	0	0	8	9	2	157	3	0	1	0	0	163	335			
11:00	0	0	0	0	0	0	0	0	0	16	16	0	175	2	0	0	0	0	170	0	0	0	0	0	0	0	0	1	170	0	0	5	1	185	2	0	5	1	191	382	
11:15	0	0	0	0	0	0	0	0	0	13	14	1	170	1	0	1	0	0	164	1	0	0	0	0	0	0	0	4	5	2	214	0	0	2	0	0	218	401			
11:30	3	0	1	0	0	0	0	0	0	11	15	0	169	1	0	3	0	0	164	3	0	0	0	0	0	0	0	7	10	0	195	0	0	1	0	0	196	385			
11:45	0	0	1	0	0	0	0	0	0	5	6	0	175	2	0	3	0	0	170	0	0	1	0	0	0	0	0	7	8	1	169	5	0	2	0	0	178	362			
12:00	0	0	1	0	0	0	0	0	0	7	8	2	169	2	0	2	0	0	167	1	0	0	0	0	0	0	0	10	11	0	155	0	0	3	0	0	159	345			
12:15	0	0	1	0	0	0	0	0	0	22	23	0	150	0	0	2	0	0	142	2	0	0	0	0	0	0	0	17	19	2	161	0	0	2	0	0	167	351			



Turning Movement Count Diagram

Intersection: 1785 Bloor Street

Intersection ID:

Municipality: Mississauga, Ontario

Date: Wednesday, August 30, 2023

AM Peak Hour: 8:00 to 9:00

MD Peak Hour: - to -

1785 Bloor Access

North Total	19		East Total	986
North Entering	14	Cyclists	0 0 0	East Entering 404
North Receiving	5	Truck	0 0 0	East Receiving 582
North Peds	19	Cars	8 0 6	East Peds 0
Bloor St	0 0 5	↑	0 0 0	↑
	2 23 545	→		← 391 12 0
	0 0 7	↓	1 0 0	↓
West Total	998		South Total	19
West Entering	582		South Entering	11
West Receiving	416		South Receiving	8
West Peds	3		South Peds	18

1780 Bloor Access

1785 Bloor Access

North Total	0		East Total	0
North Entering	0	Cyclists	- - -	East Entering 0
North Receiving	0	Truck	- - -	East Receiving 0
North Peds	-	Cars	- - -	East Peds -
Bloor St	- - -	↑	- - -	↑
	- - -	→	- - -	← - - -
	- - -	↓	- - -	↓
West Total	0		South Total	0
West Entering	0		South Entering	0
West Receiving	0		South Receiving	0
West Peds	-		South Peds	-

PM Peak Hour: 17:00 to 18:00

Total 8-Hour Count

1785 Bloor Access

North Total	16		East Total	1480
North Entering	6	Cyclists	0 0 0	East Entering 706
North Receiving	10	Truck	0 0 0	East Receiving 774
North Peds	45	Cars	3 0 3	East Peds 2
Bloor St	0 0 4	↑	6 0 0	↑
	0 7 763	→	689 9 1	←
	0 0 7	↓	1 0 0	↓
West Total	1487		South Total	13
West Entering	781		South Entering	5
West Receiving	706		South Receiving	8
West Peds	2		South Peds	23

1780 Bloor Access

1785 Bloor Access

North Total	80		East Total	5626
North Entering	46	Cyclists	0 0 0	East Entering 2627
North Receiving	34	Truck	0 0 0	East Receiving 2999
North Peds	147	Cars	31 0 15	East Peds 3
Bloor St	0 0 21	↑	13 0 0	↑
	5 61 2906	→	2558 45 4	←
	0 0 27	↓	7 0 0	↓
West Total	5677		South Total	65
West Entering	3020		South Entering	31
West Receiving	2657		South Receiving	34
West Peds	8		South Peds	115

1780 Bloor Access



APPENDIX B

Background Traffic Information

Background Development Map



Background Developments Information

Proposed Residential Development
1785 Bloor Street, Mississauga, ON



Development 1 - 1750 Bloor Street & 3315 Fieldgate Drive

Proposed Residential Development

Land Use	Units	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Residential ITE Code 222	224						
Trips		14	43	57	42	23	65

Source: Transportation Impact Study, October 2020 by LEA Consulting

Development 2 - 1840-1850 Bloor Street

Proposed Residential Development

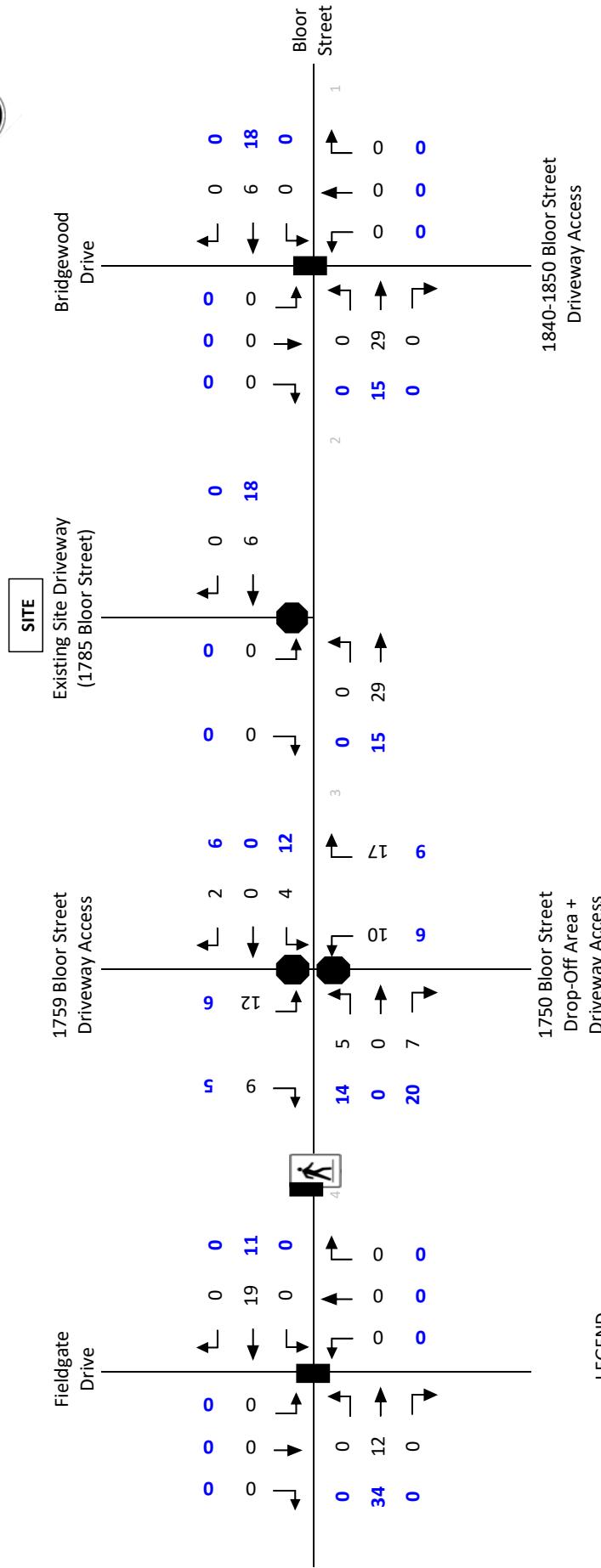
Land Use	Units	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Residential ITE Code 222	224						
Trips		40	115	155	110	70	180

Source: Urban Transportation Considerations Report, February 2020 by BA Group



DEV 1: Trip Distribution for Proposed Residential Development at 1750 Bloor Street

Source: Transportation Impact Study (Figure 4.1 - Site Generated Peak Hour Traffic Volumes), dated October 2020 by LEA Consulting



LEGEND

- Traffic Signal
- Stop Sign
- ↔ Lane Configuration
- Signalized Pedestrian Crossing (PXO)

xx AM / PM Peak Hour

Schematic; Not To Scale

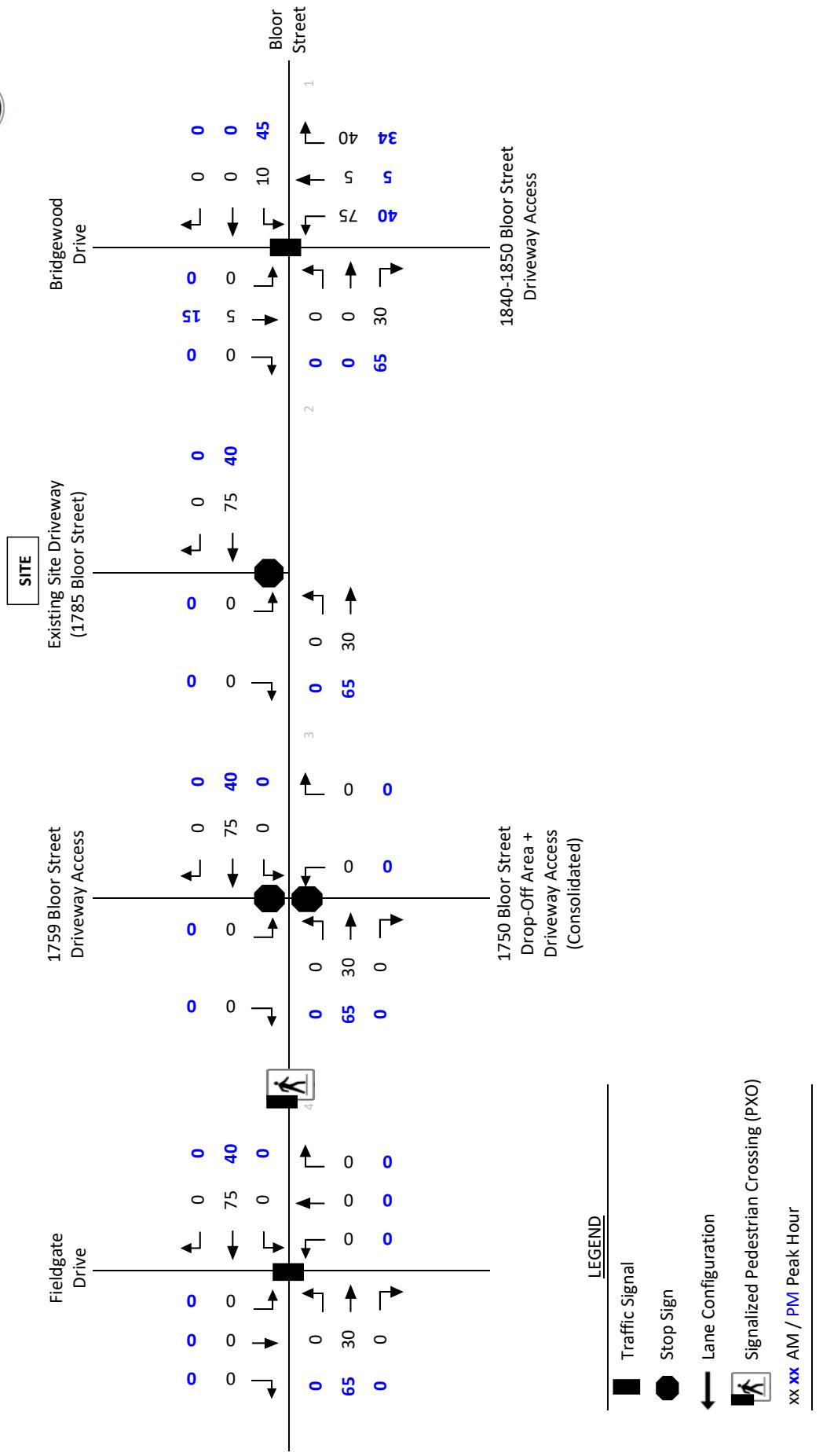
TRAFFIC IMPACT STUDY

Proposed Residential Development
1785 Bloor Street, Mississauga, ON



DEV 2: Trip Distribution for Proposed Residential Development at 1840-1850 Bloor Street

Source: Urban Transportation Considerations Report (Figure 7 - New Residential Site Traffic Volumes), dated February 2020 by BA Group





APPENDIX D

Capacity and Queue Analysis Sheets

Timings 1: Bloor Street & Bridgewood Drive							<Existing> Weekday AM Peak Hour 12/14/2021						
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT					
Lane Configurations	36	741	8	418	49	7	56	4					
Traffic Volume (vph)	36	741	8	418	49	7	56	4					
Future Volume (vph)	Perm	NA	Perm	NA	Perm	NA	Perm	NA					
Turn Type	Protected Phases	2	2	2	4	4	4	4					
Permitted Phases	Detector Phase	2	2	2	4	4	4	4					
Switch Phase	Minimum Initial (s)	8.0	8.0	8.0	12.0	12.0	12.0	12.0					
Minimum Split (s)	Total Split (s)	60.0	60.0	60.0	40.0	40.0	40.0	40.0					
Total Split (%)	Yellow Time (s)	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%					
All-Red Time (s)	All-Red Time (s)	3.5	3.5	3.5	3.0	3.0	3.0	3.0					
Lost Time Adjust (s)	Lost Time Adjust (s)	0.0	2.5	2.5	3.5	3.5	3.5	3.5					
Total Lost Time (s)	Leaf/Lag	6.0	6.0	6.0	6.5	6.5	6.5	6.5					
Lead-Lag Optimize?	Max	Max	Max	Max	None	None	None	None					
Recall Mode	Act Effct Green (s)	56.9	56.9	56.9	12.6	12.6	12.6	12.6					
Actuated g/C Ratio	v/c Ratio	0.69	0.69	0.69	0.15	0.15	0.15	0.15					
Control Delay	Queue Delay	0.38	0.22	0.22	0.36	0.36	0.49	0.49					
Control Delay	Total Delay	5.9	4.8	27.3	27.3	27.3	27.3	27.3					
LOS	Approach Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Approach LOS	Approach LOS	A	A	A	C	C	C	C					
Intersection Summary													
Cycle Length: 100	Actuated Cycle Length: 82												
Natural Cycle: 60	Control Type: Actuated-Uncoordinated												
Maximum v/c Ratio: 0.49	Intersection Signal Delay: 8.2												
Intersection Capacity Utilization: 69.7%	Intersection LOS: A												
Analysis Period (min) 15	ICU Level of Service C												
Spills and Phases:	1: Bloor Street & Bridgewood Drive												
	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6					

Queues 1: Bloor Street & Bridgewood Drive 12/14/2021							<Existing> Weekday AM Peak Hour 12/14/2021						
Lane Group	EBT	WBT	NBT	SBT	EBT	WBT	NBT	SBT	Lane Group	EBT	WBT	NBT	SBT
Lane Configurations	36	741	8	418	49	7	56	4	Lane Group Flow (vph)	855	498	83	129
Traffic Volume (vph)	36	741	8	418	49	7	56	4	v/c Ratio	0.38	0.22	0.36	0.49
Future Volume (vph)	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Control Delay	5.9	4.8	27.3	24.7
Turn Type	Protected Phases	2	2	2	4	4	4	4	Queue Delay	0.0	0.0	0.0	0.0
Permitted Phases	Detector Phase	2	2	2	4	4	4	4	Total Delay	5.9	4.8	27.3	24.7
Detector Phase	Switch Phase	2	2	2	4	4	4	4	Queue Length 50th (m)	23.8	11.6	8.2	10.0
Switch Phase	Minimum Initial (s)	8.0	8.0	8.0	12.0	12.0	12.0	12.0	Queue Length 95th (m)	36.6	19.0	20.4	25.7
Minimum Initial (s)	Minimum Split (s)	21.0	27.0	27.0	30.5	30.5	30.5	30.5	Internal Link Dist (m)	154.6	492.4	61.1	137.6
Minimum Split (s)	Total Split (s)	60.0	60.0	60.0	40.0	40.0	40.0	40.0	Turn Bay Length (m)				
Total Split (s)	Total Split (%)	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%	Base Capacity (vph)	2225	2277	579	620
Total Split (%)	Yellow Time (s)	3.5	3.5	3.5	3.0	3.0	3.0	3.0	Saturation Cap Reductn	0	0	0	0
Yellow Time (s)	All-Red Time (s)	2.5	2.5	2.5	3.5	3.5	3.5	3.5	Spillback Cap Reductn	0	0	0	0
All-Red Time (s)	Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Storage Cap Reductn	0	0	0	0
Lost Time Adjust (s)	Total Lost Time (s)	6.0	6.0	6.0	6.5	6.5	6.5	6.5	Reduced v/c Ratio	0.38	0.22	0.14	0.21
Total Lost Time (s)	Intersection Summary												
Leaf/Lag	Lead-Lag Optimize?	Max	Max	Max	Max	None	None	None					
Lead-Lag	Recall Mode	Max	Max	Max	Max	None	None	None					
Recall Mode	Act Effct Green (s)	56.9	56.9	56.9	12.6	12.6	12.6	12.6					
Act Effct Green (s)	Actuated g/C Ratio	0.69	0.69	0.69	0.15	0.15	0.15	0.15					
Actuated g/C Ratio	v/c Ratio	0.38	0.22	0.22	0.36	0.36	0.49	0.49					
v/c Ratio	Control Delay	5.9	4.8	27.3	27.3	27.3	27.3	27.3					
Control Delay	Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Queue Delay	Total Delay	5.9	4.8	27.3	27.3	27.3	27.3	27.3					
Total Delay	Approach Delay	5.9	4.8	27.3	27.3	27.3	27.3	27.3					
Approach Delay	Approach LOS	A	A	A	C	C	C	C					
Approach LOS	Intersection LOS: A												
Intersection LOS: A	ICU Level of Service C												
ICU Level of Service C	Analysis Period (min) 15												
Analysis Period (min) 15	Spills and Phases:	1: Bloor Street & Bridgewood Drive											
Spills and Phases:	1: Bloor Street & Bridgewood Drive	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6				

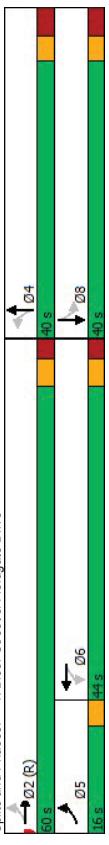
<Existing> Weekday AM Peak Hour									
1: Bloor Street & Bridgewood Drive									
> > > > > > > > >									
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Lane Configurations	36	741	27	8	418	41	49	7	23
Traffic Volume (vph)	36	741	27	8	418	41	49	7	61
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)									
Total Lost time (s)	6.0		6.0		6.5		6.5		
Lane Util. Factor	0.95		1.00		0.99		0.99		
Fpb, ped/pikes	1.00		1.00		0.99		0.99		
Fpb, peds/pikes	1.00		1.00		0.99		0.99		
Fit	0.99		0.99		0.96		0.93		
Fit Protected	1.00		1.00		0.97		0.98		
Satd. Flow (prot)	3506		3483		1764		1701		
Fit Permitted	0.91		0.94		0.76		0.83		
Satd. Flow (perm)	3209		3276		1384		1436		
Peak-hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	38	788	29	9	445	44	52	7	24
R/TOR Reduction (vph)	0	2	0	0	5	0	0	0	0
Lane Group Flow (vph)	0	853	0	0	493	0	0	0	82
Conf. Peds. (#/hr)	13	10	10	13	17	9	9	9	17
Heavy Vehicles (%)	6%	3%	4%	2%	3%	2%	0%	0%	2%
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases	2		2		2		4		4
Permitted Phases	56.9		56.9		12.6		12.6		
Actuated Green, G (s)	56.9		56.9		12.6		12.6		
Effective Green, g (s)	0.69		0.69		0.15		0.15		
Actuated g/C Ratio									
Clearance Time (s)	6.0		6.0		6.5		6.5		
Vehicle Emission (s)	3.0		3.0		3.0		3.0		
Lane Grp Cap (vph)	2226		2273		212		220		
V/S Ratio Prot									
V/S Ratio Perm	0.27		0.15		0.05		0.06		
Vic Ratio	0.38		0.22		0.30		0.37		
Uniform Delay, d _U	5.2		4.5		30.8		31.2		
Progression Factor	1.00		1.00		1.00		1.00		
Incremental Delay, d ₂	0.5		0.2		0.8		1.1		
Delay (s)	5.7		4.7		31.6		32.2		
Level of Service	A		A		C		C		
Approach Delay (s)	5.7		4.7		31.6		32.2		
Approach LOS	A		A		C		C		
Intersection Summary									
HCM 2000 Control Delay	9.0		HCM 2000 Level of Service	A					
HCM 2000 Volume to Capacity ratio	0.38		Sum of lost time (s)	12.5					
Actuated Cycle Length (s)	82.0		ICU Level of Service	C					
Intersection Capacity Utilization	68.7%		Analysis Period (min)	15					
c Critical Lane Group									

<Existing> Weekday AM Peak Hour									
2: Bloor Street & 1785 Bloor Street Driveway									
> > > > > > > > >									
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Lane Configurations	36	741	27	8	418	41	49	7	61
Traffic Volume (vph)	36	741	27	8	418	41	49	7	61
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)									
Total Lost time (s)	6.0		6.0		6.5		6.5		
Lane Util. Factor	0.95		1.00		0.99		0.99		
Fpb, ped/pikes	1.00		1.00		0.99		0.99		
Fpb, peds/pikes	1.00		1.00		0.99		0.99		
Fit	0.99		0.99		0.96		0.93		
Fit Protected	1.00		1.00		0.97		0.98		
Satd. Flow (prot)	3506		3483		1764		1701		
Fit Permitted	0.91		0.94		0.76		0.83		
Satd. Flow (perm)	3209		3276		1384		1436		
Peak-hour Factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	38	788	29	9	445	44	52	7	65
R/TOR Reduction (vph)	0	2	0	0	5	0	0	0	0
Lane Group Flow (vph)	0	853	0	0	493	0	0	0	82
Conf. Peds. (#/hr)	13	10	10	13	17	9	9	9	17
Heavy Vehicles (%)	6%	3%	4%	2%	3%	2%	0%	0%	2%
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases	2		2		2		4		4
Permitted Phases	56.9		56.9		12.6		12.6		
Actuated Green, G (s)	56.9		56.9		12.6		12.6		
Effective Green, g (s)	0.69		0.69		0.15		0.15		
Actuated g/C Ratio									
Clearance Time (s)	6.0		6.0		6.5		6.5		
Vehicle Emission (s)	3.0		3.0		3.0		3.0		
Lane Grp Cap (vph)	2226		2273		212		220		
V/S Ratio Prot									
V/S Ratio Perm	0.27		0.15		0.05		0.06		
Vic Ratio	0.38		0.22		0.30		0.37		
Uniform Delay, d _U	5.2		4.5		30.8		31.2		
Progression Factor	1.00		1.00		1.00		1.00		
Incremental Delay, d ₂	0.5		0.2		0.8		1.1		
Delay (s)	5.7		4.7		31.6		32.2		
Level of Service	A		A		C		C		
Approach Delay (s)	5.7		4.7		31.6		32.2		
Approach LOS	A		A		C		C		
Intersection Summary									
HCM 2000 Control Delay	9.0		HCM 2000 Level of Service	A					
HCM 2000 Volume to Capacity ratio	0.38		Sum of lost time (s)	12.5					
Actuated Cycle Length (s)	82.0		ICU Level of Service	C					
Intersection Capacity Utilization	68.7%		Analysis Period (min)	15					
c Critical Lane Group									

HCM Unsignalized Intersection Capacity Analysis
3: 1750 Bloor Street Driveway Access/1759 Bloor Street Driveway Access & Bloor Street

<Existing> Weekday AM Peak Hour
12/14/2021
4: Bloor Street & Fieldgate Drive

Movement	E BL	E BT	E BR	W BL	W BT	W BR	N BL	N BT	N BR	S BL	S BT
Lane Configurations	13	13	13	0	537	0	19	0	19	0	13
Traffic Volume (veh/h)	0	793	7	6	537	0	19	0	19	0	0
Future Volume (veh/h)	0	793	7	6	537	0	19	0	19	0	0
Sign Control	Free			Free			Stop				
Grade	0%			0%			0%				
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	862	8	7	584	0	21	0	21	0	0
Pedestrians											
Lane Width (m)											
Walking Speed (m/s)											
Percent Blockage											
Right turn flare (veh)											
Median type	None			None							
Median storage (veh)											
Upstream signal (m)	214			200							
pX, platoon unblocked											
vC, conflicting volume	584			870			1172	1464	435	1050	1463
VC1, stage 1 conf vol											
VC2, stage 2 conf vol											
VCu, unblocked vol	584			754			1072	1380	295	943	1384
IC, single (s)	4.1			4.1			7.5	6.5	6.9	6.5	6.9
IC, 2 stage (s)											
IF (s)	2.2			2.2			3.5	4.0	3.3	3.5	4.0
p0 queue free %	100			99			87	100	97	100	100
cM capacity (veh/h)	987			908			165	135	666	198	134
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	SB 1					
Volume Total	431	439	299	292	42	0					
Volume Left	0	0	7	0	21	0					
Volume Right	0	8	0	21	0						
cSH	987	1700	808	1700	264	1700					
Volume to Capacity	0.00	0.26	0.01	0.17	0.16	0.00					
Queue Length 55th (m)	0.0	0.0	0.0	0.0	4.2	0.0					
Control Delay (s)	0.0	0.0	0.3	0.0	21.2	0.0					
Lane LOS			A	C	A						
Approach LOS	0.0	0.2	0.2	0.0	21.2	0.0					
Intersection Summary											
Average Delay	0.7										
Intersection Capacity Utilization	32.1%										
Analysis Period (min)	15										
ICU Level of Service	A										



Split and Phases: 4- Bloor Street & Fieldgate Drive

Queues **<Existing> Weekday AM Peak Hour**
4: Bloor Street & Fieldgate Drive

HCM Signalized Intersection Capacity Analysis
4: Bloor Street & Fieldgate Drive

<Existing> Weekday AM Peak Hour
12/14/2021

	EBL	E BT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group								
Lane Group Flow (vph)	165	641	36	516	62	119	195	226
v/c Ratio	0.27	0.28	0.09	0.27	0.33	0.28	0.74	0.45
Control Delay	7.8	8.5	15.3	13.6	12.6	52.5	10.1	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	7.8	8.5	15.3	13.6	13.6	52.5	10.1	
Queue Length 50th (m)	9.7	24.2	3.1	24.8	10.2	5.9	35.5	6.6
Queue Length 95th (m)	22.5	42.9	10.7	45.7	19.6	17.7	53.2	22.7
Internal Link Dist (m)	536.1							
Turn Bay Length (m)	50.0							
Base Capacity (vph)	669	2262	405	1882	286	600	399	665
Starvation Cap Reductn	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.25	0.28	0.09	0.27	0.22	0.20	0.49	0.34
Intersection Summary								

<Existing> Weekday AM Peak Hour
12/14/2021

Movement	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	150	542	41	33	395	75	56	35
Future Volume (vph)	150	542	41	33	395	75	56	35
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5
Lane Util Factor	1.00	0.95	1.00	0.95	1.00	1.00	1.00	1.00
Fpb, ped/bikes	1.00	0.99	1.00	0.99	1.00	0.95	1.00	0.97
Fit	1.00	0.99	1.00	0.98	1.00	0.98	1.00	0.95
FitProtected	0.95	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Satd. Flow (prot)	1791	3448	1733	3431	1674	1631	1666	1620
Flt Permitted	0.42	1.00	0.41	1.00	0.49	1.00	0.68	1.00
Satd. Flow (perm)	793	3448	745	3431	856	1631	1793	1620
Peak-hour factor, PHF								
Adj. Flow (vph)	165	596	45	36	434	82	62	38
RTOR Reduction (vph)	0	4	0	0	11	0	63	0
Lane Group Flow (vph)	165	637	0	36	505	0	62	56
Confil. Peds. (#/hr)	29	30	30	29	29	30	66	66
Heavy Vehicles (%)	1%	4%	7%	3%	3%	1%	7%	0%
Turn Type	pm+pt	NA	pm	NA	perm	NA	perm	NA
Protected Phases	5	2	6	6	4	4	4	8
Permitted Phases	2		6					
Actuated Green, G (s)	65.5	65.5	54.5	54.5	22.0	22.0	22.0	22.0
Effective Green, g (s)	65.5	65.5	54.5	54.5	22.0	22.0	22.0	22.0
Actuated g/C Ratio	0.66	0.66	0.54	0.54	0.22	0.22	0.22	0.22
Clearance Time (s)	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5
Vehicle Extension (s)	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grip Cap (vph)	599	2258	406	1869	188	358	282	356
vs Ratio Prot	0.02	0.18	0.15	0.15	0.03	0.03	0.05	0.05
vs Ratio Perm	0.16		0.05		0.07	0.16		
vc Ratio	0.28	0.28	0.09	0.27	0.33	0.16	0.74	0.23
Uniform Delay, d1	6.7	7.3	10.9	12.1	32.8	31.5	36.4	32.1
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	0.3	0.1	0.1	1.0	0.2	10.9	0.3
Delay (s)	6.8	7.6	11.0	12.2	33.8	31.7	47.3	32.4
Level of Service	A	A	B	B	C	C	D	C
Approach Delay (s)	7.4		12.1		32.4		39.3	
Approach LOS	A		B		C		D	
Intersection Summary								
HCM 2000 Control Delay								
HCM 2000 Volume to Capacity ratio	0.41							
Actuated Cycle Length (s)	100.0							
Intersection Capacity Utilization	82.8%							
Analysis Period (min)	15							
c Critical Lane Group								

Proposed Residential Addition to Existing Residential Development, 1785 Bloor Street, Mississauga, ON
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Timings 1: Bloor Street & Bridgewood Drive							<Existing> Weekday PM Peak Hour 12/14/2021						
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT					
Lane Configurations	21	599	28	821	19	5	37	5					
Traffic Volume (vph)	21	599	28	821	19	5	37	5					
Future Volume (vph)													
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA					
Protected Phases	2	2	2	2	4	4	4	4					
Permitted Phases	2	2	2	2	4	4	4	4					
Detector Phase	2	2	2	2	4	4	4	4					
Switch Phase													
Minimum Initial (s)	8.0	8.0	8.0	8.0	12.0	12.0	12.0	12.0					
Minimum Split (s)	21.0	27.0	27.0	30.5	30.5	30.5	30.5	30.5					
Total Split (s)	60.0	60.0	60.0	60.0	40.0	40.0	40.0	40.0					
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%					
Yellow Time (s)	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0					
All-Red Time (s)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5					
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5					
Leaf/Lag													
Lead-Lag Optimize?	Max	Max	Max	Max	None	None	None	None					
Recall Mode													
Act Effct Green (s)	61.9	61.9	61.9	61.9	12.1	12.1	12.1	12.1					
Actuated g/C Ratio	0.76	0.76	0.76	0.76	0.15	0.15	0.15	0.15					
v/c Ratio	0.29	0.29	0.39	0.39	0.19	0.19	0.31	0.31					
Control Delay	4.5	5.1	5.1	5.1	21.9	21.9	24.3	24.3					
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Total Delay	4.5	5.1	5.1	5.1	21.9	21.9	24.3	24.3					
LOS	A	A	A	A	C	C	C	C					
Approach Delay	4.5	5.1	5.1	5.1	21.9	21.9	24.3	24.3					
Approach LOS	A	A	A	A	C	C	C	C					
Intersection Summary													
Cycle Length: 100													
Actuated Cycle Length: 81.2													
Natural Cycle: 60													
Control Type: Actuated-Uncoordinated													
Maximum v/c Ratio: 0.39													
Intersection Signal Delay: 6.0													
Intersection Capacity Utilization: 67.4%													
Analysis Period (min) 15													
Spills and Phases: 1: Bloor Street & Bridgewood Drive													
	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.0					

Queues 1: Bloor Street & Bridgewood Drive 12/14/2021							<Existing> Weekday PM Peak Hour 12/14/2021						
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT					
Lane Configurations	21	599	28	821	19	5	37	5					
Traffic Volume (vph)	21	599	28	821	19	5	37	5					
Future Volume (vph)													
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA					
Protected Phases	2	2	2	2	4	4	4	4					
Permitted Phases	2	2	2	2	4	4	4	4					
Detector Phase	2	2	2	2	4	4	4	4					
Switch Phase													
Minimum Initial (s)	8.0	8.0	8.0	8.0	12.0	12.0	12.0	12.0					
Minimum Split (s)	21.0	27.0	27.0	30.5	30.5	30.5	30.5	30.5					
Total Split (s)	60.0	60.0	60.0	60.0	40.0	40.0	40.0	40.0					
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%					
Yellow Time (s)	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0					
All-Red Time (s)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5					
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5					
Leaf/Lag													
Lead-Lag Optimize?	Max	Max	Max	Max	None	None	None	None					
Recall Mode													
Act Effct Green (s)	61.9	61.9	61.9	61.9	12.1	12.1	12.1	12.1					
Actuated g/C Ratio	0.76	0.76	0.76	0.76	0.15	0.15	0.15	0.15					
v/c Ratio	0.29	0.29	0.39	0.39	0.19	0.19	0.31	0.31					
Control Delay	4.5	5.1	5.1	5.1	21.9	21.9	24.3	24.3					
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Total Delay	4.5	5.1	5.1	5.1	21.9	21.9	24.3	24.3					
LOS	A	A	A	A	C	C	C	C					
Approach Delay	4.5	5.1	5.1	5.1	21.9	21.9	24.3	24.3					
Approach LOS	A	A	A	A	C	C	C	C					
Intersection Summary													
Cycle Length: 100													
Actuated Cycle Length: 81.2													
Natural Cycle: 60													
Control Type: Actuated-Uncoordinated													
Maximum v/c Ratio: 0.39													
Intersection Signal Delay: 6.0													
Intersection Capacity Utilization: 67.4%													
Analysis Period (min) 15													
Spills and Phases: 1: Bloor Street & Bridgewood Drive													
	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.0					

<Existing> Weekday PM Peak Hour									
1: Bloor Street & Bridgewood Drive									
>>>>>>>>>									
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Lane Configurations	21	599	36	28	821	52	19	5	18
Traffic Volume (vph)	21	599	36	28	821	52	19	5	18
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5
Total Lost time (s)	0.95	0.95	1.00	1.00	0.99	0.99	1.00	1.00	0.95
Firb. ped/pikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Firb. ped/pikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Firb. protected	1.00	1.00	1.00	1.00	0.98	0.97	1.00	1.00	0.95
Satd. Flow (prot)	3537	3570	3570	3570	1751	1751	1752	1752	1752
Firb Permitted	0.91	0.91	0.92	0.92	0.82	0.82	0.81	0.81	0.81
Satd. Flow (perm)	3211	3211	3280	3280	1476	1476	1456	1456	1456
Peak-hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	23	644	39	30	883	56	20	5	19
R/TOR Reduction (vph)	0	2	0	0	3	0	0	17	0
Lane Group Flow (vph)	0	704	0	0	966	0	0	27	0
Conf. Ped. (#/hr)	13	6	6	6	13	7	5	5	7
Heavy Vehicles (%)	0%	2%	3%	0%	1%	0%	0%	0%	0%
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	NA
Protected Phases	2	2	2	2	4	4	4	4	4
Permitted Phases	2	2	2	2	4	4	4	4	4
Actuated Green, G (s)	60.6	60.6	60.6	60.6	9.5	9.5	9.5	9.5	9.5
Effective Green, g (s)	60.6	60.6	60.6	60.6	9.5	9.5	9.5	9.5	9.5
Actuated g/C Ratio	0.73	0.73	0.73	0.73	0.12	0.12	0.12	0.12	0.12
Clearance Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5
Vehicle Emission (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	2385	2406	169	169	167	167	167	167	167
V/S Ratio Prot	0.22	0.29	0.02	0.02	0.03	0.03	0.03	0.03	0.03
V/S Ratio Perm	0.30	0.40	0.16	0.16	0.29	0.29	0.29	0.29	0.29
Vic Ratio	3.8	4.2	3.30	3.30	33.5	33.5	33.5	33.5	33.5
Uniform Delay, d ^f	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Progression Factor	0.3	0.3	0.4	0.4	1.0	1.0	1.0	1.0	1.0
Incremental Delay, d ²	0.3	4.1	4.7	33.4	34.4	34.4	34.4	34.4	34.4
Delay (s)	A	A	C	C	C	C	C	C	C
Level of Service	A	A	A	A	A	A	A	A	A
Approach Delay (s)	4.1	4.7	33.4	34.4	34.4	34.4	34.4	34.4	34.4
Approach LOS	A	A	C	C	C	C	C	C	C
Intersection Summary	6.4	HCM 2000 Level of Service	A	A	A	A	A	A	A
HCM 2000 Control Delay	0.39	HCM 2000 Level of Service	A	A	A	A	A	A	A
HCM 2000 Volume to Capacity ratio	82.6	Sum of lost time (s)	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Actuated Cycle Length (s)	67.4%	ICU Level of Service	C	C	C	C	C	C	C
Intersection Capacity Utilization	15	Analysis Period (min)							
c Critical Lane Group									

<Existing> Weekday PM Peak Hour									
12/14/2021									
HCM Signalized Intersection Capacity Analysis									
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Lane Configurations	21	599	36	28	821	52	19	5	18
Traffic Volume (vph)	21	599	36	28	821	52	19	5	18
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5
Total Lost time (s)	0.95	0.95	1.00	1.00	0.99	0.99	1.00	1.00	0.95
Firb. ped/pikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Firb. ped/pikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Firb. protected	1.00	1.00	1.00	1.00	0.98	0.97	1.00	1.00	0.95
Satd. Flow (prot)	3537	3570	3570	3570	1751	1751	1752	1752	1752
Firb Permitted	0.91	0.91	0.92	0.92	0.82	0.82	0.81	0.81	0.81
Satd. Flow (perm)	3211	3211	3280	3280	1476	1476	1456	1456	1456
Peak-hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	23	644	39	30	883	56	20	5	19
R/TOR Reduction (vph)	0	2	0	0	3	0	0	17	0
Lane Group Flow (vph)	0	704	0	0	966	0	0	27	0
Conf. Ped. (#/hr)	13	6	6	6	13	7	5	5	7
Heavy Vehicles (%)	0%	2%	3%	0%	1%	0%	0%	0%	0%
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	NA
Protected Phases	2	2	2	2	4	4	4	4	4
Permitted Phases	2	2	2	2	4	4	4	4	4
Actuated Green, G (s)	60.6	60.6	60.6	60.6	9.5	9.5	9.5	9.5	9.5
Effective Green, g (s)	60.6	60.6	60.6	60.6	9.5	9.5	9.5	9.5	9.5
Actuated g/C Ratio	0.73	0.73	0.73	0.73	0.12	0.12	0.12	0.12	0.12
Clearance Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5
Vehicle Emission (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	2385	2406	169	169	167	167	167	167	167
V/S Ratio Prot	0.22	0.29	0.02	0.02	0.03	0.03	0.03	0.03	0.03
V/S Ratio Perm	0.30	0.40	0.16	0.16	0.29	0.29	0.29	0.29	0.29
Vic Ratio	3.8	4.2	3.30	3.30	33.5	33.5	33.5	33.5	33.5
Uniform Delay, d ^f	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Progression Factor	0.3	0.3	0.4	0.4	1.0	1.0	1.0	1.0	1.0
Incremental Delay, d ²	0.3	4.1	4.7	33.4	34.4	34.4	34.4	34.4	34.4
Delay (s)	A	A	C	C	C	C	C	C	C
Level of Service	A	A	A	A	A	A	A	A	A
Approach Delay (s)	4.1	4.7	33.4	34.4	34.4	34.4	34.4	34.4	34.4
Approach LOS	A	A	C	C	C	C	C	C	C
Intersection Summary	6.4	HCM 2000 Level of Service	A	A	A	A	A	A	A
HCM 2000 Control Delay	0.39	HCM 2000 Level of Service	A	A	A	A	A	A	A
HCM 2000 Volume to Capacity ratio	82.6	Sum of lost time (s)	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Actuated Cycle Length (s)	67.4%	ICU Level of Service	C	C	C	C	C	C	C
Intersection Capacity Utilization	15	Analysis Period (min)							
c Critical Lane Group									

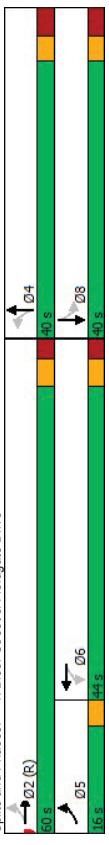
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HCM Unsignalized Intersection Capacity Analysis
3: 1750 Bloor Street Driveway Access/1759 Bloor Street Driveway <Existing> Weekday PM Peak Hour

Timings
4: Bloor Street & Fieldgate Drive
12/14/2021 <Existing> Weekday PM Peak Hour

Movement	E BL	E BT	E BR	W BL	W BT	W BR	N BL	N BT	N BR	S BL	S BT
Lane Configurations	13	13	13	0	878	0	9	0	4	0	0
Traffic Volume (veh/h)	0	734	22	4	878	0	9	0	4	0	0
Future Volume (veh/h)	0	734	22	4	878	0	9	0	4	0	0
Sign Control	Free			Free			Stop				
Grade	0%			0%			0%				
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	798	24	4	954	0	10	0	4	0	0
Pedestrians											
Lane Width (m)											
Walking Speed (m/s)											
Percent Blockage											
Right turn flare (veh)											
Median type	None			None							
Median storage (veh)											
Upstream signal (m)											
pX, platoon unblocked	0.92	214	0.96	200	0.94	0.94	0.96	0.94	0.94	0.92	0.92
vC, conflicting volume	954	822	1295	1772	411	1365	1784	477	477		
VC1, stage 1 conf vol											
VC2, stage 2 conf vol											
VCu, unblocked vol	786	737	1013	1519	310	1087	1531	270	270		
IC, single (s)	4.1	4.1	7.5	6.5	6.9	7.5	6.5	6.9	6.9		
IC, 2 stage (s)											
IF (s)	2.2	2.2	3.5	4.0	3.3	3.5	4.0	3.3	3.3		
p0 queue free %	100	100	94	100	99	100	100	100	100		
cM capacity (veh/h)	766	832	182	111	660	159	109	673	673		
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	SB 1					
Volume Total	399	423	481	477	14	0					
Volume Left	0	0	4	0	10	0					
Volume Right	0	24	0	0	4	0					
cSH											
Volume to Capacity	0.00	0.25	0.00	0.28	0.06	0.00					
Queue Length 25th (m)	0.0	0.0	0.1	0.0	1.5	0.0					
Control Delay (s)	0.0	0.0	0.1	0.0	21.7	0.0					
Lane LOS											
Approach LOS	0.0	0.1	0.1	0.0	21.7	0.0					
Intersection Summary											
Average Delay	0.2										
Intersection Capacity Utilization	37.1%										
Analysis Period (min)	15										



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<Existing> Weekday PM Peak Hour							
4: Bloor Street & Fieldgate Drive							
	EBL	EBT	WBL	WBT	NBL	NBT	SBL
Lane Group							
Lane Group Flow (vph)	103	701	68	824	64	93	140
v/c Ratio	0.21	0.28	0.15	0.37	0.40	0.29	0.67
Control Delay	5.6	6.0	11.3	10.6	42.7	15.8	53.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	5.6	6.0	11.3	10.6	42.7	15.8	53.4
Queue Length 50th (m)	4.6	21.3	5.1	37.3	11.2	5.0	25.8
Queue Length 95th (m)	12.0	38.2	14.7	63.8	21.9	16.7	41.5
Internal Link Dist (m)	536.1	189.9			128.6		151.2
Turn Bay Length (m)	50.0	50.0			40.0		25.0
Base Capacity (vph)	566	2477	450	2201	326	591	427
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.18	0.28	0.15	0.37	0.20	0.16	0.33
Intersection Summary							

<Existing> Weekday PM Peak Hour							
4: Bloor Street & Fieldgate Drive							
Movement	EBL	EBT	WBL	WBT	NBL	NBT	SBL
Lane Configurations							
Traffic Volume (vph)	93	551	80	61	641	101	58
Future Volume (vph)	93	551	80	61	641	101	58
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	6.0	6.0	6.0	6.0	6.5	6.5
Lane Util Factor	1.00	0.95	1.00	0.95	1.00	1.00	1.00
Fpb, ped/bikes	1.00	0.99	1.00	0.99	1.00	0.97	1.00
Fpb, ped/bikes	1.00	1.00	0.98	1.00	0.98	1.00	0.89
Fit	1.00	0.98	1.00	0.98	1.00	0.90	1.00
FitProtected	0.95	1.00	0.95	1.00	0.95	1.00	0.95
Satd. Flow (prot)	1782	3480	1757	3467	1758	1643	1739
Flt Permitted	0.30	1.00	0.39	1.00	0.53	1.00	0.70
Satd. Flow (perm)	554	3480	712	3467	976	1643	1276
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	103	612	89	68	712	112	64
RTOR Reduction (vph)	0	7	0	0	0	0	0
Lane Group Flow (vph)	103	694	0	68	817	0	64
Confil. Ped's (#/hr)	35	27	27	27	35	26	35
Confil. Bikes (#/hr)			1	1	1	1	1
Turn Type	pm+pt	NA	Perm	NA	Perm	NA	Perm
Protected Phases	5	2	6	6	4	4	8
Permitted Phases	2		6				
Actuated Green, G (s)	71.0	71.0	62.7	62.7	66.5	66.5	66.5
Effective Green, g (s)	71.0	71.0	62.7	62.7	66.5	66.5	66.5
Actuated g/C Ratio	0.71	0.71	0.63	0.63	0.16	0.16	0.16
Clearance Time (s)	3.0	6.0	6.0	6.0	6.5	6.5	6.5
Vehicle Extension (s)	2.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grip Cap (vph)	458	2470	446	2173	161	271	210
vs Ratio Prot	0.01	0.20	0.24	0.24	0.02	0.02	0.05
vs Ratio Perm	0.15		0.10		0.07	0.11	
vc Ratio	0.22	0.28	0.15	0.38	0.40	0.15	0.67
Uniform Delay, d1	4.9	5.3	7.7	9.1	37.3	35.7	39.2
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	0.3	0.2	0.1	1.6	0.3	0.6
Delay (s)	5.0	5.5	7.9	9.2	38.9	36.0	46.9
Level of Service	A	A	A	A	D	D	D
Approach Delay (s)	5.5		9.1		37.2		41.4
Approach LOS	A		A		D		D
Intersection Summary							
HCM 2000 Control Delay		14.6					
HCM 2000 Volume to Capacity ratio		0.43					
Actuated Cycle Length (s)		100.0					
Intersection Capacity Utilization		75.6%					
Analysis Period (min)		15					
c Critical Lane Group							

Timings 1: Bloor Street & Bridgewood Drive								<Background> 2027 Weekday AM Peak Hour							
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT							
Lane Configurations															
Traffic Volume (vph)	36	770	28	445	124	12	56	9							
Future Volume (vph)	36	770	28	445	124	12	56	9							
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA							
Protected Phases	2	2	2	4	4	4	4	4							
Detector Phase	2	2	2	4	4	4	4	4							
Switch Phase															
Minimum Initial (s)	8.0	8.0	8.0	8.0	12.0	12.0	12.0	12.0							
Minimum Split (s)	21.0	21.0	27.0	27.0	30.5	30.5	30.5	30.5							
Total Split (s)	60.0	60.0	60.0	60.0	40.0	40.0	40.0	40.0							
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%							
Yellow Time (s)	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0							
All Red Time (s)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5							
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5							
Leaflet Lag															
Lead-Lag Optimize?	Max	Max	Max	Max	None	None	None	None							
Recall Mode	Act Ect Green (s)	54.2	54.2	17.7	17.7										
Actuated g/C Ratio	v/c Ratio	0.64	0.64	0.21	0.21										
Control Delay	9.1	7.5	39.8	21.8											
Queue Delay	0.0	0.0	0.0	0.0											
Total Delay	9.1	7.5	39.8	21.8											
LOS	A	A	D	C											
Approach Delay	9.1	7.5	39.8	21.8											
Approach LOS	A	A	D	C											
Intersection Summary															
Cycle Length (s)	100														
Actuated Cycle Length: 84.4															
Natural Cycle: 60															
Control Type: Actuated-Uncoordinated															
Maximum v/c Ratio: 0.70															
Intersection Signal Delay: 13.2															
Intersection Capacity Utilization: 75.2%															
Analysis Period (min) 15															
Spills and Phases: 1: Bloor Street & Bridgewood Drive															
Spills:	0.2	0.4	0.5	0.5											

HCM Signalized Intersection Capacity Analysis <Background> 2027 Weekday AM Peak Hour																
1: Bloor Street & Bridgewood Drive								05-25-2022								
Movement	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	NBL	NBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations																
Traffic Volume (vph)	36	770	28	445	124	12	56	9								
Future Volume (vph)	36	770	28	445	124	12	56	9								
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA								
Protected Phases	2	2	2	4	4	4	4	4								
Detector Phase	2	2	2	4	4	4	4	4								
Switch Phase																
Minimum Initial (s)	8.0	8.0	8.0	8.0	12.0	12.0	12.0	12.0								
Minimum Split (s)	21.0	21.0	27.0	27.0	30.5	30.5	30.5	30.5								
Total Split (s)	60.0	60.0	60.0	60.0	40.0	40.0	40.0	40.0								
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%								
Yellow Time (s)	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0								
All Red Time (s)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5								
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5								
Leaflet Lag																
Lead-Lag Optimize?	Max	Max	Max	Max	None	None	None	None								
Recall Mode	Act Ect Green (s)	54.2	54.2	17.7	17.7											
Actuated g/C Ratio	v/c Ratio	0.64	0.64	0.21	0.21											
Control Delay	9.1	7.5	39.8	21.8												
Queue Delay	0.0	0.0	0.0	0.0												
Total Delay	9.1	7.5	39.8	21.8												
LOS	A	A	D	C												
Approach Delay	9.1	7.5	39.8	21.8												
Approach LOS	A	A	D	C												
Intersection Summary																
Cycle Length (s)	100															
Actuated Cycle Length: 84.4																
Natural Cycle: 60																
Control Type: Actuated-Uncoordinated																
Maximum v/c Ratio: 0.70																
Intersection Signal Delay: 13.2																
Intersection Capacity Utilization: 75.2%																
Analysis Period (min) 15																
Spills and Phases: 1: Bloor Street & Bridgewood Drive																
Spills:	0.2	0.4	0.5	0.5												

HCM 2000 Control Delay	12.8	HCM 2000 Level of Service	B
Actuated Volume to Capacity ratio	0.50	Sum of lost time (s)	12.5
Actuated Cycle Length (s)	84.4	ICU Level of Service	D
Intersection Capacity Utilization	75.2%	Analysis Period (min)	15
c Critical Lane Group	C	c Critical Lane Group	C

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HCM Unsigned Intersection Capacity Analysis <Background> 2027 Weekday AM Peak Hour
2: Bloor Street & 1785 Bloor Street Driveway

Timings
3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street
<Background> 2027 Weekday AM Peak Hour
05-25-2022

Movement	EBL	EFT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	9	871	633	7	5	9
Future Volume (Veh/h)	9	871	633	7	5	9
Sign Control	Free	Free	Stop			
Grade	0%	0%	0%	0%		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (vph)	10	947	688	8	5	10
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right Turn Lane (veh)						
Median type	None	None				
Median storage veh						
Upstream signal (m)	21	179				
pX, platoon unblocked	0.97					
vc, conflicting volume	696					
vc1, stage 1 conf vol						
vc2, stage 2 conf vol						
vcu, unblocked vol	635					
IC, single (S)	4.1					
IC, 2 stage (S)						
If (S)	2.2					
p0 queue free %	99					
cM capacity (veh/h)	920					
Direction, Lane #	EB1	EB2	WB1	WB2	SB1	
Volume Total	326	631	459	237	15	
Volume Left	10	0	0	0	5	
Volume Right	0	0	0	8	10	
cSH						
Volume to Capacity	0.01	0.37	0.27	0.14	0.03	
Queue Length 95th (m)	0.3	0.0	0.0	0.0	0.8	
Control Delay (s)	0.4	0.0	0.0	0.0	13.5	
Lane LOS	A	0.1	0.0	13.5	B	
Approach Delay (s)						
Approach LOS						
Intersection Summary						
Average Delay	0.2					
Intersection Capacity Utilization	40.4%					
Analysis Period (min)	15					
ICU Level of Service	A					



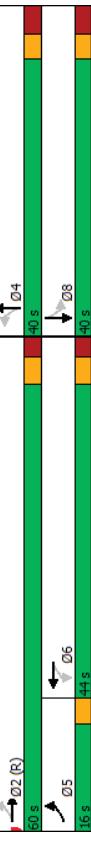
HCM Signalized Intersection Capacity Analysis <Background> 2027 Weekday AM Peak Hour 3: 1750 Bloor Street Driveway/1759 Bloor Street											
05-25-2022											
Movement	EBL	EBC	EBR	WBL	WBR	NBL	NBR	SBL	SBR		
Lane Configurations											
Traffic Volume (vph)	5	835	14	10	642	2	29	0	36	12	0
Future Volume (vph)	5	835	14	10	642	2	29	0	36	12	0
Peak Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Losttime (s)	6.0			6.0		6.5		6.5			
Lane Util. Factor	0.95		0.95		1.00		1.00		1.00		
Fit	1.00		1.00		0.93		0.94		0.94		
Fit Protected	1.00		1.00		0.98		0.97		0.97		
Said. Flow (prot)	3569		3574		1705		1724		1724		
Fit Permitted	0.95		0.94		0.84		0.79		0.79		
Said. Flow (perm)	3399		3359		1472		1392		1392		
Peak hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	5	908	15	11	698	2	32	0	39	13	0
R/T/R Reduction (vph)	0	1	0	0	0	0	0	0	0	20	0
Lane Group Flow (vph)	0	927	0	0	711	0	0	0	36	0	3
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA	NA
Protected Phases	2		2		4		4		4		
Permitted Phases	2		2		4		4		4		
Actuated Green, G (s)	61.7		61.7		9.4		9.4		9.4		
Effective Green, g (s)	61.7		61.7		9.4		9.4		9.4		
Actuated g/C Ratio	0.74		0.74		0.11		0.11		0.11		
Clearance Time (s)	6.0		6.0		6.5		6.5		6.5		
Vehicle Extension (s)	3.0		3.0		3.0		3.0		3.0		
Lane Grip Cap (vph)	2508		2479		165		156		156		
v/s Ratio Prot	c0.27		0.21		0.02		0.00		0.00		
v/s Ratio Perm	0.37		0.29		0.22		0.02		0.02		
Uniform Delay, d1	3.9		3.6		33.8		33.0		33.0		
Progression Factor	1.00		1.00		1.00		1.00		1.00		
Incremental Delay, d2	0.4		0.3		0.7		0.0		0.0		
Delay (s)	4.4		3.9		34.4		33.0		33.0		
Level of Service	A		A		C		C		C		
Approach Delay (s)	4.4		3.9		34.4		33.0		33.0		
Approach LOS	A		A		C		C		C		
Intersection Summary											
HCM 2000 Control Delay	5.8										
HCM 2000 Volume to Capacity ratio	0.35										
Actualized Cycle Length (s)	83.6										
Intersection Capacity Utilization	47.4%										
Analysis Period (min)	15										
c Critical Lane Group											

Timings 4: Bloor Street & Fieldgate Drive											
<Background> 2027 Weekday AM Peak Hour 05-25-2022											
Movement	EBL	EBC	EBR	WBL	WBR	NBL	NBT	SBL	SBT		
Lane Group											
Lane Configurations											
Traffic Volume (vph)	5	150									
Future Volume (vph)	5	150									
Turn Type											
Protected Phases	5	2									
Permitted Phases	2										
Detector Phase	5	2									
Switch Phase											
Minimum Initial (s)	5.0										
Minimum Split (s)	10.0										
Total Split (s)	16.0										
Total Split (%)	16.0%										
Yellow Time (s)	3.0										
All-Red time (s)	0.0										
Lost Time Adjust (s)	0.0										
Total Lost Time (s)	3.0										
Lead/Lag											
Lead-Lag Optimize?	Yes										
Recall Mode											
Act Effect Green (s)	68.4										
Actuated g/C Ratio	0.68										
VC Ratio	0.30										
Control Delay	8.3										
Queue Delay	0.0										
Total Delay	8.3										
LOS	A	A	B	B	D	B	D	A	C	C	C
Approach Delay	8.7										
Approach LOS	A	B	C	D	E	F	G	H	I	J	K
Intersection Summary											
Cycle length: 100											
Actuated Cycle Length: 100											
Offset: 0 (0%)											
Referred to phase 2: EBTL, Start of Green											
Natural Cycle: 85											
Control Type: Actuated-Coordinated											
Maximum v/c Ratio: 0.74											
Intersection LOS: B											
Intersection Signal Delay: 15.7											
Intersection Capacity Utilization: 83.7%											
Analysis Period (min): 15											
Spills and Phases: 4: Bloor Street & Fieldgate Drive											
c Critical Lane Group											

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HCM Signalized Intersection Capacity Analysis <Background> 2027 Weekday AM Peak Hour
4: Bloor Street & Fieldgate Drive

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configuration	150	584	41	35	509	79	59	35	74	177	38	176
Traffic Volume (vph)	150	584	41	35	509	79	59	35	74	177	38	176
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Peak-hour Factor (vph)	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Total Losttime (s)	1.00	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Util Factor	1.00	1.00	1.00	0.99	1.00	0.95	1.00	0.97	1.00	0.97	1.00	0.97
Fpb,ped/bikes	0.99	1.00	0.98	1.00	0.98	1.00	0.98	1.00	0.95	1.00	0.95	1.00
Fpb,ped/bikes	1.00	0.99	1.00	0.98	1.00	0.95	1.00	0.90	1.00	0.95	1.00	0.88
Fit	0.96	1.00	0.95	1.00	0.96	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Fit Protected	0.96	1.00	0.95	1.00	0.96	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Satd. Flow (prot)	1796	3452	1735	3448	1675	1631	1666	1618	1666	1618	1666	1618
Fit Permitted	0.35	1.00	0.39	1.00	0.47	1.00	0.68	1.00	0.68	1.00	0.68	1.00
Satd. Flow (perm)	667	3452	713	3448	826	1631	1193	1618	1193	1618	1193	1618
Peak-hour Factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	165	642	45	38	559	87	65	38	81	195	42	193
R/TOR Reduction (vph)	0	4	0	0	9	0	0	63	0	0	150	0
Lane Group Flow (vph)	165	633	0	38	637	0	65	56	0	195	85	0
Confil. Peds. (#/hr)	29	29	30	30	29	30	29	30	29	30	29	30
Heavy Vehicles (%)	1%	4%	7%	3%	3%	1%	7%	0%	1%	4%	0%	1%
Turn Type	pm+pl	NA	Perm	NA								
Protected Phases	2	5	2	6	4	4	8	8	4	8	8	8
Permitted Phases	65.4	65.4	54.4	54.4	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
Actuated Green, G (s)	65.4	65.4	54.4	54.4	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
Actuated Green, g (s)	0.65	0.65	0.54	0.54	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Actuated g/C Ratio	0.65	0.65	0.54	0.54	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Clearance Time (s)	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Vehicle Extension (s)	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	526	2257	387	1875	182	360	263	357	263	357	263	357
v/s Ratio Prot	0.03	0.20	0.18	0.18	0.03	0.03	0.05	0.05	0.03	0.05	0.05	0.05
v/s Ratio Perm	0.18	0.05	0.05	0.05	0.08	0.08	0.16	0.16	0.08	0.16	0.16	0.16
v/c Ratio	0.31	0.30	0.10	0.34	0.36	0.16	0.74	0.24	0.36	0.74	0.24	0.24
Uniform Delay, d1	7.0	7.5	11.0	12.8	32.9	31.4	36.3	32.0	32.9	31.4	36.3	32.0
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	0.3	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.2	0.3	0.3
Delay (s)	7.1	7.8	11.1	12.9	34.1	31.6	47.0	32.4	34.1	31.6	47.0	32.4
Level of Service	A	A	B	B	C	C	D	C	C	D	C	E
Approach LOS	7.7	7.7	12.8	12.8	32.5	39.0	39.0	39.0	32.5	39.0	39.0	D
Approach LOS	A	A	B	B	C	C	D	C	C	D	C	D
Intersection Summary												
HCM 2000 Control Delay												
HCM 2000 Volume to Capacity ratio												
Actuated Cycle Length (s)												
Intersection Capacity Utilization												
Analysis Period (min)												
c Critical Lane Group												

Spills and Phases: 1: Bloor Street & Bridgewood Drive

Timings
1: Bloor Street & Bridgewood Drive
4: Bloor Street & Fieldgate Drive

<Background> 2027 Weekday PM Peak Hour
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Movement	E BL	E BT	E BR	W BL	W BT	W BR	N BL	N BT	N BR	S BL	S BT	S BR
Lane Configuration	150	584	41	35	509	79	59	35	74	177	38	176
Traffic Volume (vph)	150	584	41	35	509	79	59	35	74	177	38	176
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Peak-hour Factor (vph)	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Total Losttime (s)	1.00	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lane Util Factor	1.00	1.00	1.00	0.99	1.00	0.95	1.00	0.97	1.00	0.97	1.00	0.97
Fpb,ped/bikes	0.99	1.00	0.98	1.00	0.98	1.00	0.98	1.00	0.95	1.00	0.95	1.00
Fpb,ped/bikes	1.00	0.99	1.00	0.98	1.00	0.95	1.00	0.90	1.00	0.95	1.00	0.88
Fit	0.96	1.00	0.95	1.00	0.96	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Fit Protected	0.96	1.00	0.95	1.00	0.96	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Satd. Flow (prot)	0.35	1.00	0.39	1.00	0.47	1.00	0.68	1.00	0.68	1.00	0.68	1.00
Satd. Flow (perm)	667	3452	713	3448	826	1631	1193	1618	1193	1618	1193	1618
Peak-hour Factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	165	642	45	38	559	87	65	38	81	195	42	193
R/TOR Reduction (vph)	0	4	0	0	9	0	0	63	0	0	150	0
Lane Group Flow (vph)	165	633	0	38	637	0	65	56	0	195	85	0
Confil. Peds. (#/hr)	29	29	30	30	29	30	29	30	29	30	29	30
Heavy Vehicles (%)	1%	4%	7%	3%	3%	1%	7%	0%	1%	4%	0%	1%
Turn Type	pm+pl	NA	Perm	NA								
Protected Phases	2	5	2	6	4	4	8	8	4	8	8	8
Permitted Phases	65.4	65.4	54.4	54.4	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
Actuated Green, G (s)	65.4	65.4	54.4	54.4	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
Actuated Green, g (s)	0.65	0.65	0.54	0.54	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Actuated g/C Ratio	0.65	0.65	0.54	0.54	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Clearance Time (s)	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Vehicle Extension (s)	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	526	2257	387	1875	182	360	263	357	263	357	263	357
v/s Ratio Prot	0.03	0.20	0.18	0.18	0.03	0.03	0.05	0.05	0.03	0.05	0.05	0.05
v/s Ratio Perm	0.18	0.05	0.05	0.05	0.08	0.08	0.16	0.16	0.08	0.16	0.16	0.16
v/c Ratio	0.31	0.30	0.10	0.34	0.36	0.16	0.74	0.24	0.36	0.74	0.24	0.24
Uniform Delay, d1	7.0	7.5	11.0	12.8	32.9	31.4	36.3	32.0	32.9	31.4	36.3	32.0
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	0.3	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.2	0.3	0.3
Delay (s)	7.1	7.8	11.1	12.9	34.1	31.6	47.0	32.4	34.1	31.6	47.0	32.4
Level of Service	A	A	B	B	C	C	D	C	C	D	C	E
Approach LOS	7.7	7.7	12.8	12.8	32.5	39.0	39.0	39.0	32.5	39.0	39.0	D
Approach LOS	A	A	B	B	C	C	D	C	C	D	C	D
Intersection Summary												
HCM 2000 Control Delay												
HCM 2000 Volume to Capacity ratio												
Actuated Cycle Length (s)												
Intersection Capacity Utilization												
Analysis Period (min)												
c Critical Lane Group												

Intersection Summary

HCM 2000 Control Delay

HCM 2000 Volume to Capacity ratio

Actuated Cycle Length (s)

Intersection Capacity Utilization

Analysis Period (min)

c Critical Lane Group

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HCM Signalized Intersection Capacity Analysis <Background> 2027 Weekday PM Peak Hour											
1: Bloor Street & Bridgewood Drive											
Movement	EBL	EBC	EBR	WBL	WBR	NBL	NBR	SBL	SBR		
Lane Configurations											
Traffic Volume (vph)	22	629	101	73	839	52	59	10	52	38	20
Future Volume (vph)	22	629	101	73	839	52	59	10	52	38	28
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Losttime (s)	6.0										6.5
Lane Util Factor	0.96										
Firb,ped/bikes	1.00										
Firb,ped/bikes	1.00										
Fit	0.98										
Fit Protected	1.00										
Satd. Flow (prot)	3483										
Fit Permitted	0.90										
Satd. Flow (perm)	3156										
Peak-hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	24	676	109	78	902	56	63	11	56	41	22
RTROR Reduction (vph)	0	8	0	3	0	0	0	35	0	0	22
Lane Group Flow (vph)	0	801	0	0	1033	0	0	95	0	0	71
Confil. Ped., #/hr	13	6	6	6	13	7	5	5	5	5	7
Heavy Vehicles (%)	0%	2%	3%	0%	1%	0%	0%	0%	0%	0%	0%
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA	NA
Protected Phases	2		2		2		4		4		
Permitted Phases	2		2		2		4		4		
Actuated Green, G (s)	56.9		56.9		56.9		12.7		12.7		
Effective Green, g (s)	56.9		56.9		56.9		12.7		12.7		
Actuated g/C Ratio	0.69		0.69		0.69		0.15		0.15		
Clearance Time (s)	6.0		6.0		6.0		6.5		6.5		
Vehicle Extension (s)	3.0		3.0		3.0		3.0		3.0		
Lane Grp Cap (vph)	2187		2016		230		230		230		
v/s Ratio Prot											
v/s Ratio Perm	0.25		0.36		c0.06		0.05				
vic Ratio	0.37		0.51		0.41		0.31				
Uniform Delay, d1	5.2		6.0		31.3		30.8				
Progression Factor	1.00		1.00		1.00		1.00				
Incremental Delay, d2	0.5		0.9		1.2		0.8				
Delay (s)	5.7		6.9		32.6		31.6				
Level of Service	A		A		C		C				
Approach Delay (s)	5.7		6.9		32.6		31.6				
Approach LOS	A		A		C		C				
Intersection Summary											
HCM 2000 Control Delay	9.2		HCM 2000 Level of Service		A						
HCM 2000 Volume to Capacity ratio	0.49										
Actuated Cycle Length (s)	82.1		Sum of lost time (s)		12.5		D				
Intersection Capacity Utilization	75.9%		ICU Level of Service								
Analysis Period (min)	15										
c Critical Lane Group											

HCM Unsignedized Intersection Capacity Analysis=> 2027 Weekday PM Peak Hour											
2: Bloor Street & 1785 Bloor Street Driveway											
Movement	EBL	EBC	EBR	WBL	WBR	NBL	NBT	SBL	SBR		
Lane Configurations											
Traffic Volume (vph)	22	629	101	73	839	52	59	10	52	38	28
Future Volume (vph)	22	629	101	73	839	52	59	10	52	38	28
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Losttime (s)	6.0										6.5
Lane Util Factor	0.96										
Firb,ped/bikes	1.00										
Firb,ped/bikes	1.00										
Fit	0.98										
Fit Protected	1.00										
Satd. Flow (prot)	3483										
Fit Permitted	0.90										
Satd. Flow (perm)	3156										
Peak-hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	24	676	109	78	902	56	63	11	56	41	22
RTROR Reduction (vph)	0	8	0	3	0	0	0	35	0	0	22
Lane Group Flow (vph)	0	801	0	0	1033	0	0	95	0	0	71
Confil. Ped., #/hr	13	6	6	6	13	7	5	5	5	5	7
Heavy Vehicles (%)	0%	2%	3%	0%	1%	0%	0%	0%	0%	0%	0%
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA	NA
Protected Phases	2		2		2		4		4		
Permitted Phases	2		2		2		4		4		
Actuated Green, G (s)	56.9		56.9		56.9		12.7		12.7		
Effective Green, g (s)	56.9		56.9		56.9		12.7		12.7		
Actuated g/C Ratio	0.69		0.69		0.69		0.15		0.15		
Clearance Time (s)	6.0		6.0		6.0		6.5		6.5		
Vehicle Extension (s)	3.0		3.0		3.0		3.0		3.0		
Lane Grp Cap (vph)	2187		2016		230		230		230		
v/s Ratio Prot											
v/s Ratio Perm	0.25		0.36		c0.06		0.05				
vic Ratio	0.37		0.51		0.41		0.31				
Uniform Delay, d1	5.2		6.0		31.3		30.8				
Progression Factor	1.00		1.00		1.00		1.00				
Incremental Delay, d2	0.5		0.9		1.2		0.8				
Delay (s)	5.7		6.9		32.6		31.6				
Level of Service	A		A		C		C				
Approach Delay (s)	5.7		6.9		32.6		31.6				
Approach LOS	A		A		C		C				
Intersection Summary											
HCM 2000 Control Delay	9.2		HCM 2000 Level of Service		A						
HCM 2000 Volume to Capacity ratio	0.49										
Actuated Cycle Length (s)	82.1		Sum of lost time (s)		12.5		D				
Intersection Capacity Utilization	75.9%		ICU Level of Service		C		C				
Analysis Period (min)	15										
c Critical Lane Group											

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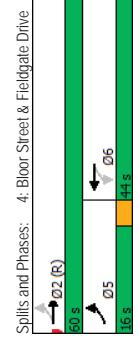
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<Background> 2027 Weekday PM Peak Hour							
3: 1750 Bloor Street Driveway/1759 Bloor Street							
Timings	EBL	EFT	WBL	WBT	NBL	NBT	SBL
Lane Group 0							
Lane Configurations							
Traffic Volume (vph)	14 851	16 936	15 0	6 0			
Future Volume (vph)	14 851	16 936	15 0	6 0			
Turn Type	Perm	NA	Perm	NA	Perm	NA	
Protected Phases	2	2	2	4	4	4	
Detector Phase	2	2	2	4	4	4	
Switch Phase							
Minimum Initial (s)	8.0	8.0	8.0	12.0	12.0	12.0	
Minimum Split (s)	21.0	21.0	27.0	30.5	30.5	30.5	
Total Split (s)	60.0	60.0	60.0	40.0	40.0	40.0	
Total Split (%)	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	
Yellow Time (s)	3.5	3.5	3.5	3.0	3.0	3.0	
All Red Time (s)	2.5	2.5	2.5	3.5	3.5	3.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.5	6.5	6.5	6.5	
Leaflet/Ag							
Lead-Lag Optimize?	Max	Max	Max	None	None	None	
Recall Mode	70.0	70.0	12.1	12.1			
Act Effct Green (s)	0.84	0.84	0.14	0.14			
Actuated g/C Ratio	0.36	0.37	0.13	0.05			
v/c Ratio							
Control Delay	3.8	3.9	12.4	3.5			
Queue Delay	0.0	0.0	0.0	0.0			
Total Delay	3.8	3.9	12.4	3.5			
LOS	A	A	B	A			
Approach Delay	3.8	3.9	12.4	3.5			
Approach LOS	A	A	B	A			
Intersection Summary							
Cycle Length: 100							
Actuated Cycle Length: 83.8							
Natural Cycle: 60							
Control Type: Semi Act-Uncoord							
Maximum v/c Ratio: 0.37							
Intersection Signal Delay: 4.0							
Intersection Capacity Utilization: 57.8%							
Analysis Period (min) 15							
Spills and Phases:	3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street						
	02	04	05	06	07	08	09

HCM Signalized Intersection Capacity Analysis <Background> 2027 Weekday PM Peak Hour							
3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street							
05-25-2022							
Movement	EBL	EFT	WBL	WBT	NBL	NBT	SBL
Lane Configurations							
Traffic Volume (vph)	14 851	16 936	15 0	6 0			
Future Volume (vph)	14 851	16 936	15 0	6 0			
Turn Type	Perm	NA	Perm	NA	Perm	NA	
Protected Phases	2	2	2	4	4	4	
Detector Phase	2	2	2	4	4	4	
Switch Phase							
Minimum Initial (s)	8.0	8.0	8.0	12.0	12.0	12.0	
Minimum Split (s)	21.0	21.0	27.0	30.5	30.5	30.5	
Total Split (s)	60.0	60.0	60.0	40.0	40.0	40.0	
Total Split (%)	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	
Yellow Time (s)	3.5	3.5	3.5	3.0	3.0	3.0	
All Red Time (s)	2.5	2.5	2.5	3.5	3.5	3.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.5	6.5	6.5	6.5	
Leaflet/Ag							
Lead-Lag Optimize?	Max	Max	Max	None	None	None	
Recall Mode	70.0	70.0	12.1	12.1			
Act Effct Green (s)	0.84	0.84	0.14	0.14			
Actuated g/C Ratio	0.36	0.37	0.13	0.05			
v/c Ratio							
Control Delay	3.8	3.9	12.4	3.5			
Queue Delay	0.0	0.0	0.0	0.0			
Total Delay	3.8	3.9	12.4	3.5			
LOS	A	A	B	A			
Approach Delay	3.8	3.9	12.4	3.5			
Approach LOS	A	A	B	A			
Intersection LOS: A							
ICU Level of Service B							
HCM 2000 Control Delay							
HCM 2000 Volume to Capacity ratio							
Actuated Cycle Length (s)							
Intersection Capacity Utilization							
Analysis Period (min)	15						
c Critical Lane Group							

<Background> 2027 Weekday PM Peak Hour																
4: Bloor Street & Fieldgate Drive																
	EBL	EFT	WBL	WFT	NBL	NFT	SBL	SFT	EBL	EFT	WBL	WFT	NBL	NFT	SBL	SFT
Lane Group																
Lane Configurations	95	664	61	692	58	27	129	49	12	13	664	82	58	27	58	129
Traffic Volume (vph)	95	664	61	692	58	27	129	49	95	664	82	61	692	101	49	116
Future Volume (vph)									1900	1900	1900	1900	1900	1900	1900	1900
Turn Type	pm+pt	NA	Perm	NA	Perm	NA	Perm	NA								
Protected Phases	5	2	6	4	4	8	8	8	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5
Permitted Phases	2	5	2	6	6	4	4	8	1.00	0.95	1.00	0.95	1.00	1.00	1.00	1.00
Detector Phase									Fpb. ped/bikes	1.00	0.99	1.00	0.99	1.00	0.97	1.00
Switch Phase									Fpb. ped/bikes	1.00	1.00	0.98	1.00	0.98	1.00	0.97
Minimum Initial (s)	5.0	8.0	10	10	8.0	8.0	10	10	Fit	1.00	0.98	1.00	0.98	1.00	1.00	0.99
Minimum Split (s)	10.0	34.0	34.0	40.0	40.0	40.0	40.0	40.0	Fit Protected	0.95	1.00	0.95	1.00	0.95	1.00	0.95
Total Split (s)	16.0	60.0	44.0	44.0	40.0	40.0	40.0	40.0	Satd. Flow (prot)	1783	3493	1762	3474	1758	1641	1739
Total Split (%)	16.0%	60.0%	44.0%	44.0%	40.0%	40.0%	40.0%	40.0%	Flt Permitted	0.27	1.00	0.34	1.00	0.53	1.00	0.70
Yellow Time (s)	3.0	3.5	3.5	3.5	3.0	3.0	3.0	3.0	Satd. Flow (perm)	507	3493	630	3474	982	1641	1274
All Red Time (s)	0.0	2.5	2.5	3.5	3.5	3.5	3.5	3.5	Peak-hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Adj. Flow (vph)	106	738	91	68	769	112	64
Total Lost Time (s)	3.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	RTOR Reduction (vph)	0	6	0	0	7	0	0
Leaf/Tag	Lead	lag	Lane Group Flow (vph)	106	823	0	68	874	0	143						
Lead-Lag Optimize?	Yes	Conf. Pers. (#/hr)	35	27	27	27	35	26	35							
Recall Mode	None	C-Max	None	None	None	None	None	None	Conf. Bikes (#/hr)	1	1	1	1	1	1	1
Act Elct Green (s)	73.7	70.7	61.4	61.4	16.8	16.8	16.8	16.8	Turn Type	pm+pl	NA	pm+pl	NA	pm+pl	NA	NA
Actuated GC Ratio	0.74	0.71	0.61	0.61	0.17	0.17	0.17	0.17	Protected Phases	5	2	6	6	4	4	8
v/c Ratio	0.24	0.33	0.18	0.41	0.39	0.29	0.67	0.48	Permitted Phases	2						
Control Delay	5.9	6.5	12.0	11.5	42.0	15.6	53.4	16.0	Actualized Green, G (s)	70.7	70.7	61.3	61.3	16.8	16.8	16.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Effective Green, g (s)	70.7	70.7	61.3	61.3	16.8	16.8	16.8
Total Delay	5.9	6.5	12.0	11.5	42.0	15.6	53.4	16.0	Actualized g/C Ratio	0.71	0.71	0.61	0.61	0.17	0.17	0.17
LOS	A	A	B	B	D	B	D	B	Clearance Time (s)	3.0	6.0	6.0	6.0	6.5	6.5	6.5
Approach Delay	6.4	11.6	26.3	32.4					Vehicle Extension (s)	2.0	3.0	3.0	3.0	3.0	3.0	3.0
Approach LOS	A	B	C	C					Lane Gap Cap (vph)	440	2469	386	2129	164	275	214
Intersection Summary																
Cycle Length (s)									v/s Ratio Prot	0.02	0.24	0.25	0.25	0.02	0.05	
Actuated Cycle Length: 100									v/s Ratio Perm	0.15	0.11	0.07	0.11			
Offset: 0 (0%)									v/c Ratio	0.24	0.33	0.18	0.41	0.39	0.15	0.67
Natural Cycle: 85									Uniform Delay, d1	5.2	5.6	8.4	10.0	37.0	35.5	39.0
Control Type: Actuated-Coordinated									Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Maximum v/c Ratio: 0.67									Incremental Delay, d2	0.1	0.4	0.2	0.1	1.5	0.3	7.7
Intersection Signal Delay: 13.4									Delay (s)	5.3	6.0	8.6	10.1	38.6	35.7	46.7
Intersection Capacity Utilization: 75.9%									Level of Service	A	A	B	D	D	D	D
Analysis Period (min)									Approach LOS	5.9	10.0	36.9	36.9	41.1	41.1	
Spills and Phases: 4: Bloor Street & Fieldgate Drive																
0.2 (E)	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	HCM 2000 Control Delay	14.5						
50 s	50	40	40	40	40	40	40	40	HCM 2000 Level of Service	B						
0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	Actuated Cycle Length (s)	0.46						
44 s	44	44	44	44	44	44	44	44	Sum of lost time (s)	100.0						
0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	ICU Level of Service	75.9%						
50 s	50	50	50	50	50	50	50	50	Analysis Period (min)	15						
0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	C Critical Lane Group							



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<Background> 2027 Weekday PM Peak Hour																
4: Bloor Street & Fieldgate Drive																
Movement	EBL	EFT	WBL	WFT	NBL	NFT	SBL	SFT	EBL	EFT	WBL	WFT	NBL	NFT	SBL	SFT
Lane Configurations	95	664	61	692	58	27	129	49	12	13	664	82	58	27	58	129
Traffic Volume (vph)	95	664	61	692	58	27	129	49	95	664	82	61	692	101	49	116
Future Volume (vph)									1900	1900	1900	1900	1900	1900	1900	1900
Turn Type	pm+pt	NA	Perm	NA	Perm	NA	Perm	NA								
Protected Phases	5	2	6	4	4	8	8	8	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5
Permitted Phases	2	5	2	6	6	4	4	8	1.00	0.95	1.00	0.95	1.00	1.00	1.00	1.00
Detector Phase									Fpb. ped/bikes	1.00	0.99	1.00	0.99	1.00	0.97	1.00
Switch Phase									Fpb. ped/bikes	1.00	1.00	0.98	1.00	0.98	1.00	0.97
Minimum Initial (s)	5.0	8.0	10	10	8.0	8.0	10	10	Fit	1.00	0.98	1.00	0.98	1.00	1.00	0.99
Minimum Split (s)	10.0	34.0	34.0	40.0	40.0	40.0	40.0	40.0	Fit Protected	0.95	1.00	0.95	1.00	0.95	1.00	0.95
Total Split (s)	16.0	60.0	44.0	44.0	40.0	40.0	40.0	40.0	Satd. Flow (prot)	1783	3493	1762	3474	1758	1641	1739
Total Split (%)	16.0%	60.0%	44.0%	44.0%	40.0%	40.0%	40.0%	40.0%	Satd. Flow (perm)	507	3493	630	3474	982	1641	1274
Yellow Time (s)	3.0	3.5	3.5	3.5	3.0	3.0	3.0	3.0	Peak-hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90
All Red Time (s)	0.0	2.5	2.5	3.5	3.5	3.5	3.5	3.5	Adj. Flow (vph)	106	738	91	68	769	112	64
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RTOR Reduction (vph)	0	6	0	0	0	0	0
Total Lost Time (s)	3.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	Lane Group Flow (vph)	106	823	0	68	874	0	143
Leaf/Lag	Lead	lag	Conf. Pers. (#/hr)	35	27	27	27	35	26	35						
Lead-Lag Optimize?	Yes	Conf. Bikes (#/hr)	1	1	1	1	1	1	1							
Recall Mode	None	C-Max	None	None	None	None	None	None	Turn Type	pm+pl	NA	pm+pl	NA	pm+pl	NA	NA
Act Elct Green (s)	73.7	70.7	61.4	61.4	16.8	16.8	16.8	16.8	Protected Phases	5	2	6	6	4	4	8
Actuated GC Ratio	0.74	0.71	0.61	0.61	0.17	0.17	0.17	0.17	Permitted Phases	2						
v/c Ratio	0.24	0.33	0.18	0.41	0.39	0.29	0.67	0.48	Actualized Green, G (s)	70.7	70.7	61.3	61.3	16.8	16.8	16.8
Control Delay	5.9	6.5	12.0	11.5	42.0	15.6	53.4	16.0	Effective Green, g (s)	70.7	70.7	61.3	61.3	16.8	16.8	16.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Actualized g/C Ratio	0.71	0.71	0.61	0.61	0.17	0.17	0.17
Total Delay	5.9	6.5	12.0	11.5	42.0	15.6	53.4	16.0	Clearance Time (s)	3.0	6.0	6.0	6.0	6.5	6.5	6.5
LOS	A	A	B	B	D	B	D	B	Vehicle Extension (s)	2.0	3.0	3.0	3.0	3.0	3.0	3.0
Approach Delay	6.4	11.6	26.3	32.4					Lane Gap Cap (vph)	440	2469	386	2129	164	275	214
Approach LOS	A															

<Total> 2027 Weekday AM Peak Hour									
Timings 1: Bloor Street & Bridgewood Drive									
	EBL	EFT	WBL	WFT	NBL	NFT	SBL	SFT	
Lane Group 0									
Lane Configurations									
Traffic Volume (vph)	36	797	28	454	124	12	56	9	4
Future Volume (vph)	36	797	28	454	124	12	56	9	4
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases	2	2	2	4	4	4	4	4	
Detector Phase	2	2	2	4	4	4	4	4	
Switch Phase									
Minimum Initial (s)	8.0	8.0	8.0	8.0	12.0	12.0	12.0	12.0	
Minimum Split (s)	21.0	21.0	27.0	27.0	30.5	30.5	30.5	30.5	
Total Split (s)	60.0	60.0	60.0	60.0	40.0	40.0	40.0	40.0	
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%	
Yellow Time (s)	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0	
All Red Time (s)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	
Lead-Lag									
Lead-Lag Optimize?	Max	Max	Max	Max	None	None	None	None	
Recall Mode	Act Ect Green (s)	54.2	54.2	17.7	17.7				
v/c Ratio	Actuated v/c Ratio	0.64	0.64	0.21	0.21				
Control Delay	9.2	7.6	39.8	21.8					
Queue Delay	0.0	0.0	0.0	0.0					
Total Delay	9.2	7.6	39.8	21.8					
LOS	A	A	D	C					
Approach Delay	9.2	7.6	39.8	21.8					
Approach LOS	A	A	D	C					
Intersection Summary									
Cycle Length (s)	100								
Actuated Cycle Length	84.4								
Natural Cycle (s)	60								
Control Type: Actuated-Uncoordinated									
Maximum v/c Ratio: 0.70									
Intersection Signal Delay: 13.2									
Intersection Capacity Utilization: 75.9%									
Analysis Period (min) 15									
Spills and Phases: 1: Bloor Street & Bridgewood Drive									
	0.02	0.04	0.05	0.05					

<Total> 2027 Weekday AM Peak Hour									
HCM Signalized Intersection Capacity Analysis									
1: Bloor Street & Bridgewood Drive									
	EBL	EFT	WBL	WFT	NBL	NFT	SBL	SFT	
Movement									
Lane Configurations									
Traffic Volume (vph)	36	797	28	454	124	12	56	9	4
Future Volume (vph)	36	797	28	454	124	12	56	9	4
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases	2	2	2	4	4	4	4	4	
Detector Phase	2	2	2	4	4	4	4	4	
Switch Phase									
Minimum Initial (s)	8.0	8.0	8.0	8.0	12.0	12.0	12.0	12.0	
Minimum Split (s)	21.0	21.0	27.0	27.0	30.5	30.5	30.5	30.5	
Total Split (s)	60.0	60.0	60.0	60.0	40.0	40.0	40.0	40.0	
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%	
Yellow Time (s)	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0	
All Red Time (s)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	
Lead/Lag									
Lead-Lag Optimize?	Max	Max	Max	Max	None	None	None	None	
Recall Mode	Act Ect Green (s)	54.2	54.2	17.7	17.7				
v/c Ratio	Actuated v/c Ratio	0.64	0.64	0.21	0.21				
Control Delay	9.2	7.6	39.8	21.8					
Queue Delay	0.0	0.0	0.0	0.0					
Total Delay	9.2	7.6	39.8	21.8					
LOS	A	A	D	C					
Approach Delay	9.2	7.6	39.8	21.8					
Approach LOS	A	A	D	C					
Intersection Summary									
Cycle Length (s)	100								
Actuated Cycle Length	84.4								
Natural Cycle (s)	60								
Control Type: Actuated-Uncoordinated									
Maximum v/c Ratio: 0.70									
Intersection Signal Delay: 13.2									
Intersection Capacity Utilization: 75.9%									
Analysis Period (min) 15									
Spills and Phases: 1: Bloor Street & Bridgewood Drive									
	0.02	0.04	0.05	0.05					

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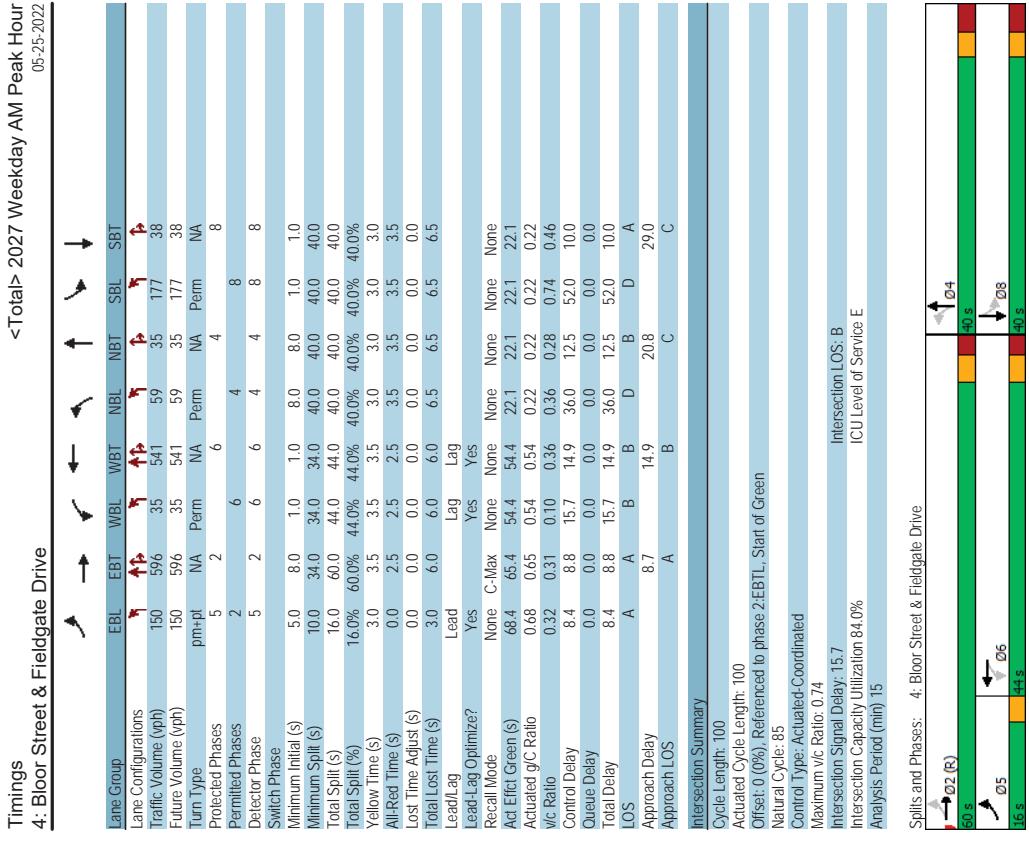
HCM Unsigned Intersection Capacity Analysis								<Total> 2027 Weekday AM Peak Hour								
2: Bloor Street & 1785 Bloor Street Driveway								05-25-2022								
Movement	EBL	EFT	WBT	WBR	SBL	SBR		Movement	EBL	EFT	WBT	WBR	SBL	SBR		
Lane Configurations								Lane Group								
Traffic Volume (veh/h)	21	871	633	16	32	41		Lane Configurations								
Future Volume (Veh/h)	21	871	633	16	32	41		Traffic Volume (vph)	5	847	10	674	29	0	12	0
Sign Control		Free	Free		Stop			Future Volume (vph)	5	847	10	674	29	0	12	0
Grade	0%	0%	0%	0%	0%			Turn Type	NA	Perm	NA	Perm	NA	Perm	NA	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92			Protected Phases	2	2	2	2	4	4	4	
Hourly flow rate (vph)	23	947	688	17	35	45		Permitted Phases	2	2	2	2	4	4	4	
Pedestrians								Detector Phase	2	2	2	2	4	4	4	
Lane Width (m)								Switch Phase								
Walking Speed (m/s)								Minimum Initial (s)								
Percent Blockage								Minimum Split (s)								
Right Turn Flare (veh)								Total Split (s)								
Median type	None	None	None					Total Split (%)	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%	
Median storage veh								Yellow Time (s)	3.5	3.5	3.5	3.0	3.0	3.0	3.0	
Upstream Signal (m)								All-Red Time (s)	2.5	2.5	2.5	3.5	3.5	3.5	3.5	
pX, platoon unblocked	0.97	21	179		0.92	0.97		Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
vc, conflicting volume		705			1216	352		Total Lost Time (s)	6.0	6.0	6.0	6.5	6.5	6.5	6.5	
vc1, stage 1 conf vol								Lead/Lag	30							
vc2, stage 2 conf vol								Lead-Lag Optimize?								
vcu, unblocked vol	638				924	276		Recall Mode								
IC, single (s)	4.1				6.8	6.9		Act Effect Green (s)								
IC, 2 stage (s)								Actuated g/C Ratio								
If (s)	2.2				3.5	3.3		VC Ratio								
p0 queue free %	97				85	94		Control Delay								
cM capacity (veh/h)	915				241	701		Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Direction, Lane #	EB1	EB2	WB1	WB2	SB1			Total Delay	4.9	4.5	4.5	4.5	4.5	4.5	4.5	
Volume Total	339	631	459	246	80			LOS	A	A	A	C	C	C	A	
Volume Left	23	0	0	0	35			Approach Delay	4.9	4.5	4.5	4.5	4.5	4.5	4.5	
Volume Right	0	0	0	17	45			Approach LOS	A	A	A	A	A	A	A	
cSH								Intersection Summary								
Volume to Capacity	0.03	1700	1700	1700	382			Cycle Length: 100								
Queue Length 95th (m)	0.6	0.0	0.0	0.0	5.9			Actuated Cycle Length: 82.3								
Control Delay (s)	0.9	0.0	0.0	0.0	16.9			Natural Cycle: 60								
Lane LOS	A	0.3	0.0	0.0	C			Control Type: Semi Act-Uncoord								
Approach Delay (s)								Maximum v/c Ratio: 0.36								
Approach LOS								Intersection LOS: A								
Intersection Summary								Intersection Capacity Utilization: 47.8%								
Average Delay								Analysis Period (min): 15								
Intersection Capacity Utilization																
Analysis Period (min)																

Spills and Phases: 3: 1750 Bloor Street Driveway & Bloor Street


Timings																
3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street								<Total> 2027 Weekday AM Peak Hour								
05-25-2022								05-25-2022								
Movement	EBL	EFT	WBT	WBR	SBL	SBR		Movement	EBL	EFT	WBT	WBR	SBL	SBR		
Lane Configurations								Lane Group								
Traffic Volume (veh/h)	21	871	633	16	32	41		Lane Configurations								
Future Volume (Veh/h)	21	871	633	16	32	41		Traffic Volume (vph)	5	847	10	674	29	0	12	0
Sign Control		Free	Free		Stop			Future Volume (vph)	5	847	10	674	29	0	12	0
Grade	0%	0%	0%	0%	0%			Turn Type	NA	Perm	NA	Perm	NA	Perm	NA	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92			Protected Phases	2	2	2	2	4	4	4	
Hourly flow rate (vph)	23	947	688	17	35	45		Permitted Phases	2	2	2	2	4	4	4	
Pedestrians								Detector Phase	2	2	2	2	4	4	4	
Lane Width (m)								Switch Phase								
Walking Speed (m/s)								Minimum Initial (s)								
Percent Blockage								Minimum Split (s)								
Right Turn Flare (veh)								Total Split (s)								
Median type	None	None	None					Total Split (%)	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%	
Median storage veh								Yellow Time (s)	3.5	3.5	3.5	3.0	3.0	3.0	3.0	
Upstream Signal (m)								All-Red Time (s)	2.5	2.5	2.5	3.5	3.5	3.5	3.5	
pX, platoon unblocked	0.97	21	179		0.92	0.97		Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
vc, conflicting volume		705			1216	352		Total Lost Time (s)	6.0	6.0	6.0	6.5	6.5	6.5	6.5	
vc1, stage 1 conf vol								Lead/Lag	30							
vc2, stage 2 conf vol								Lead-Lag Optimize?								
vcu, unblocked vol	638				924	276		Recall Mode								
IC, single (s)	4.1				6.8	6.9		Act Effect Green (s)								
IC, 2 stage (s)								Actuated g/C Ratio								
If (s)	2.2				3.5	3.3		VC Ratio								
p0 queue free %	97				85	94		Control Delay								
cM capacity (veh/h)	915				241	701		Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Direction, Lane #	EB1	EB2	WB1	WB2	SB1			Total Delay	4.9	4.5	4.5	4.5	4.5	4.5	4.5	
Volume Total	339	631	459	246	80			LOS	A	A	A	A	A	A	A	
Volume Left	23	0	0	0	35			Approach Delay	4.9	4.5	4.5	4.5	4.5	4.5	4.5	
Volume Right	0	0	0	17	45			Approach LOS	A	A	A	A	A	A	A	
cSH								Intersection Summary								
Volume to Capacity	0.03	1700	1700	1700	382			Cycle Length: 100								
Queue Length 95th (m)	0.6	0.0	0.0	0.0	5.9			Actuated Cycle Length: 82.3								
Control Delay (s)	0.9	0.0	0.0	0.0	16.9			Natural Cycle: 60								
Lane LOS	A	0.3	0.0	0.0	C			Control Type: Semi Act-Uncoord								
Approach Delay (s)								Maximum v/c Ratio: 0.36								
Approach LOS								Intersection LOS: A								
Intersection Summary								Intersection Capacity Utilization: 47.8%								
Average Delay								Analysis Period (min): 15								
Intersection Capacity Utilization																
Analysis Period (min)																

Spills and Phases: 3: 1750 Bloor Street Driveway & Bloor Street


HCM Signalized Intersection Capacity Analysis										<Total> 2027 Weekday AM Peak Hour									
3: 1750 Bloor Street Driveway/1759 Bloor Street										05-25-2022									
Movement	EBL	EBC	EBR	WBL	WBR	NBL	NBR	SBL	SBR	Movement	EBL	EBC	EBR	WBL	WBR	NBL	NBR	SBL	SBR
Lane Configurations										Lane Group									
Traffic Volume (vph)	5	847	14	10	674	2	29	0	36	Lane Configurations									
Future Volume (vph)	5	847	14	10	674	2	29	0	36	Traffic Volume (vph)	150	596	35	541	59	35	177	177	38
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	Future Volume (vph)	150	596	35	541	59	35	177	177	38
Total Losttime (s)	6.0				6.0			6.5		Turn Type	pm+pl			NA	Perm	NA	Perm	NA	
Lane Util. Factor	0.95				0.95			1.00		Protected Phases	5	2	6	6	4	4	4	4	8
Fit	1.00				1.00			0.93		Permitted Phases	2		6	6	4	4	4	4	8
Fit Protected	1.00				1.00			0.98		Detector Phase	5	2	6	6	4	4	4	4	8
Said. Flow (prot)	3569				3574			1705		Switch Phase									
Fit Permitted	0.95				0.94			0.84		Minimum Initial (s)	50	80	1.0	1.0	80	80	1.0	1.0	
Said. Flow (perm)	3399				3360			1472		Minimum Split (s)	100	340	34.0	34.0	40.0	40.0	40.0	40.0	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	Total Split (s)	16.0	60.0	44.0	44.0	40.0	40.0	40.0	40.0	
Adj. Flow (vph)	5	921	15	11	733	2	32	0	39	Yellow Time (s)	3.0	3.5	3.5	3.5	3.0	3.0	3.0	3.0	3.0
R/T/R Reduction (vph)	0	1	0	0	0	0	0	0	0	All-Red Time (s)	0.0	2.5	2.5	2.5	3.5	3.5	3.5	3.5	
Lane Group Flow (vph)	0	940	0	0	746	0	0	36	0	Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	Total Lost Time (s)	30	6.0	6.0	6.0	6.5	6.5	6.5	6.5	
Protected Phases	2			2		4		4		Lead/Lag	Lead								
Permitted Phases	2			2		4		4		Lead-Lag Optimize?	Yes								
Actuated Green, G (s)	61.7			61.7		9.4		9.4		Recall Mode	None	C-Max							
Effective Green, g (s)	61.7			61.7		9.4		9.4		Act Effect Green (s)	68.4	65.4	54.4	54.4	22.1	22.1	22.1	22.1	
Actuated g/C Ratio	0.74			0.74		0.11		0.11		Actuated g/C Ratio	0.68	0.65	0.54	0.54	0.22	0.22	0.22	0.22	
Clearance Time (s)	6.0			6.0		6.5		6.5		VC Ratio	0.32	0.31	0.10	0.36	0.28	0.28	0.28	0.28	
Vehicle Extension (s)	3.0			3.0		3.0		3.0		Control Delay	8.4	8.8	14.9	14.9	36.0	12.5	52.0	10.0	
Lane Grip Cap (vph)	2508			2479		165		156		Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
V/S Ratio Prot	c0.28			0.22		0.02		0.00		Total Delay	8.4	8.8	15.7	14.9	36.0	12.5	52.0	10.0	
V/S Ratio Perm	c0.37			0.30		0.22		0.02		LOS	A	A	B	B	D	B	D	A	
Uniform Delay, d1	4.0			3.7		33.8		33.0		Approach Delay	8.7	14.9	36.0	12.5	20.8				
Progression Factor	1.00			1.00		1.00		1.00		Approach LOS	A	B	C	C					
Incremental Delay, d2	0.4			0.3		0.7		0.0		Intersection Summary									
Delay (s)	4.4			4.0		34.4		33.0		Cycle Length: 100									
Level of Service	A			A		C		C		Actuated Cycle Length: 100									
Approach Delay (s)	4.4			4.0		34.4		33.0		Offset: 0(0%) Referenced to phase 2:EBTL, Start of Green									
Approach LOS	A			A		C		C		Natural Cycle: 85									
Intersection Summary										Control Type: Actuated-Coordinated									
HCM 2000 Control Delay										Maximum v/c Ratio: 0.74									
HCM 2000 Volume to Capacity ratio										Intersection LOS: B									
Actualized Cycle Length (s)										Intersection Signal Delay: 15.7									
Intersection Capacity Utilization										Intersection Capacity Utilization: 84.0%									
Analysis Period (min)										Analysis Period (min): 15									
c Critical Lane Group										Spills and Phases: 4: Bloor Street & Fieldgate Drive									



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HCM Signalized Intersection Capacity Analysis												<Total> 2027 Weekday AM Peak Hour													
4: Bloor Street & Fieldgate Drive												05-25-2022													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Movement	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT			
Lane Configurations													Traffic Volume (vph)	150	586	41	35	541	79	59	35	74	177	38	176
Traffic Volume (vph)	150	586	41	35	541	79	59	35	74	177	38	176	Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Future Volume (vph)	150	586	41	35	541	79	59	35	74	177	38	176	Turn Type	Protected Phases			Perm	NA	Perm	NA	Perm	NA	Perm	NA	
Ideal Flow (vphol)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	Total Losttime (s)	3.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
Lane Util Factor	1.00	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Firb, ped/bikes	1.00	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	1.00	1.00	
Firb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Firb, ped/bikes	0.99	1.00	1.00	0.98	1.00	0.95	1.00	0.95	1.00	1.00	1.00	
Firb	1.00	0.99	1.00	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Firb	1.00	0.99	1.00	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Firb Protected	1.00	0.96	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Satd. Flow (prot)	1798	3453	1736	3453	1675	1631	1666	1618	1666	1618	1666	1618
Satd. Flow (prot)	0.34	1.00	0.39	1.00	0.47	1.00	0.68	1.00	0.68	1.00	0.68	1.00	Satd. Flow (perm)	634	3453	704	3453	826	1631	1193	1618	1193	1618	1193	1618
Peak-hour Factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	Adj. Flow (vph)	165	655	45	38	595	87	65	38	81	195	42	193
Adj. Flow (vph)	0	4	0	0	9	0	0	63	0	0	150	0	RTR Reduction (vph)	165	696	0	38	673	0	65	0	195	0	195	0
Lane Group Flow (vph)	29	91	30	30	29	30	3%	3%	1%	7%	0%	1%	Contd. Peds. (#/hr)	1%	4%	7%	3%	1%	7%	0%	1%	4%	0%	1%	30
Heavy Vehicles (%)	1%	4%	7%	3%	1%	7%	0%	1%	7%	0%	1%	0%	Heavy Vehicles (%)	1%	4%	7%	3%	1%	7%	0%	1%	4%	0%	1%	30
Turn Type	pm+pl	NA	perm	NA	Protected Phases	5	2	6	4	4	4	8	8	8	8	8									
Protected Phases	2	5	2	6	4	4	4	4	4	8	8	8	Permit Phases	2	5	2	6	4	4	4	8	8	8	8	
Permit Phases	65.4	65.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	Actuated Green, G (s)	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	
Actuated Green, G (s)	65.4	65.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	Actuated Green, g (s)	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	
Actuated gC Ratio	0.65	0.65	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	Clearance Time (s)	3.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
Clearance Time (s)	3.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	Vehicle Extension (s)	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	507	2258	382	1878	182	360	263	357	357	357	357	357	v/s Ratio Prod	0.03	0.20	0.19	0.19	0.03	0.03	0.05	0.05	0.05	0.05	0.05	
v/s Ratio Perm	0.19	0.05	0.05	0.08	0.08	0.08	0.16	0.16	0.16	0.16	0.16	0.16	vic Ratio	0.33	0.31	0.10	0.36	0.16	0.74	0.24	0.24	0.24	0.24	0.24	
Uniform Delay, d1	7.0	7.5	11.0	12.9	32.9	31.4	36.3	32.0	32.0	32.0	32.0	32.0	Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Delay (s)	7.2	7.9	11.1	13.0	34.1	31.6	47.0	32.4	32.4	32.4	32.4	
Level of Service	A	A	B	B	C	C	D	C	C	D	C	D	Approach Delay (s)	7.7	12.9	32.5	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	
Approach LOS	A	A	B	B	C	C	D	C	C	D	C	D	Intersection Summary												
HCM 2000 Control Delay													HCM 2000 Level of Service	B											
HCM 2000 Volume to Capacity ratio													Actuated Cycle Length (s)	100											
Actuated Cycle Length (s)													Natural Cycle (s)	60											
Intersection Capacity Utilization													Control Type: Actuated/Uncoordinated												
Analysis Period (min)													Maximum v/c Ratio	0.53											
c Critical Lane Group													Intersection Signal Delay: 8.9												
													Intersection Capacity Utilization 77.2%												
													Analysis Period (min)	15											



Spills and Phases: 1: Bloor Street & Bridgewood Drive

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HCM Signalized Intersection Capacity Analysis										<Total> 2027 Weekday PM Peak Hour										
1: Bloor Street & Bridgewood Drive										2: Bloor Street & 1785 Bloor Street Driveway										
Movement	EBL	EBC	EBR	WBL	WBR	NBL	NBR	SBL	SBR	Movement	EBL	EBC	EBR	WBL	WBR	SBL	SBR			
Lane Configurations	22	646	101	73	871	52	59	10	52	38	Traffic Volume (veh)	29	864	926	42	27	28			
Traffic Volume (vph)	22	646	101	73	871	52	59	10	52	38	Future Volume (veh/h)	29	864	926	42	27	28			
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	Sign Control	Free	Free	Free	Free	Free	Free			
Ideal Flow (vphpl)	6.0	0.96			6.0	0.95		1.00	1.00	1.00	Grade	0%	0%	0%	0%	0%	0%			
Total Losttime (s)											Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92			
Lane Util Factor											Hourly flow rate (vph)	32	939	1007	46	29	30			
Firb, ped/bikes	1.00										Pedestrians									
Firb, ped/bikes	1.00										Lane Width (m)									
Fit											Walking Speed (m/s)									
Fit Protected	1.00										Percent Blockage									
Satd. Flow (prot)	3485										Right turn flare (veh)									
Fit Permitted	0.90										Median type									
Satd. Flow (perm)	3154										Upstream signal (m)									
Peak-hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	VC, conflicting volume									
Adj. Flow (vph)	24	695	109	78	937	56	63	11	56	41	VC1, stage 1 conf vol	21	179							
RTROR Reduction (vph)	0	8	0	3	0	0	0	0	35	0	VC2, stage 2 conf vol	0	0							
Lane Group Flow (vph)	0	820	0	0	1068	0	0	95	0	0	VCU, unblocked vol	1053								
Confil. Peds. (#/hr)	13	0%	6	6	13	7	5	5	5	7	IC, single (s)	1564								
Heavy Vehicles (%)	0%	2%	3%	0%	1%	0%	0%	0%	0%	0%	IC, 2 stage (s)	526								
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA	If (s)	4.1	6.8	6.9						
Protected Phases	2		2		2		4		4		PD queue free %	2.2								
Permitted Phases											CM capacity (veh/h)	96								
Actuated Green, G (s)	56.9		56.9		56.9		12.7		12.7		Direction Lane #	723								
Effective Green, g (s)	56.9		56.9		56.9		12.7		12.7		EB 1	EB 2	WB 1	WB 2	SB 1					
Actuated g/C Ratio	0.69		0.69		0.69		0.15		0.15		Volume / Total	345	626	671	382	59				
Clearance Time (s)	6.0		6.0		6.0		6.5		6.5		Volume Left	32	0	0	0	29				
Vehicle Extension (s)	3.0		3.0		3.0		3.0		3.0		Volume Right	0	0	0	46	30				
Lane Grp Cap (vph)	2185		2016		230		230		230		cSH	723	1700	1700	1700	319				
v/s Ratio Prod											Volume to Capacity	0.04	0.37	0.39	0.22	0.19				
v/s Ratio Perm	0.26		0.37		c0.06		0.05				Queue Length 95th (m)	1.1	0.0	0.0	0.0	5.1				
vic Ratio	0.38		0.53		0.41		0.31				Control Delay (s)	1.4	0.0	0.0	0.0	18.8				
Uniform Delay, d1	5.2		6.1		31.3		30.8				Lane LOS	A				C				
Progression Factor	1.00		1.00		1.00		1.00				Approach Delay (s)	0.5	0.0	0.0	0.0	18.8				
Incremental Delay, d2	0.5		1.0		1.2		0.8				Approach LOS	C				C				
Delay (s)	5.7		7.1		32.6		31.6				Intersection Summary									
Level of Service	A		A		C		C				Average Delay	0.8								
Approach Delay (s)	5.7		7.1		32.6		31.6				Intersection Capacity Utilization	54.9%								
Approach LOS	A		A		C		C				Analysis Period (min)	15								
Intersection Summary											ICU Level of Service	A								
HCM 2000 Control Delay	9.2		HCM 2000 Level of Service	A																
HCM 2000 Volume to Capacity ratio	0.51		82.1		Sum of lost time (s)		12.5													
Actuated Cycle Length (s)							D													
Intersection Capacity Utilization			77.2%		ICU Level of Service															
Analysis Period (min)			15																	
C Critical Lane Group																				

HCM Unsignalized Intersection Capacity Analysis										<Total> 2027 Weekday PM Peak Hour										
2: Bloor Street & 1785 Bloor Street Driveway										05-25-2022										
Movement	EBL	EBC	EBR	WBL	WBR	NBL	NBR	SBL	SBR	Movement	EBL	EBC	EBR	WBL	WBR	SBL	SBR			
Lane Configurations	22	646	101	73	871	52	59	10	52	38	Traffic Volume (veh)	29	864	926	42	27	28			
Traffic Volume (vph)	22	646	101	73	871	52	59	10	52	38	Future Volume (veh/h)	29	864	926	42	27	28			
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	Sign Control	Free	Free	Free	Free	Free	Free			
Ideal Flow (vphpl)	6.0	0.96			6.0	0.95		1.00	1.00	1.00	Grade	0%	0%	0%	0%	0%	0%			
Total Losttime (s)											Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92			
Lane Util Factor											Hourly flow rate (vph)	32	939	1007	46	29	30			
Firb, ped/bikes	1.00										Pedestrians									
Firb, ped/bikes	1.00										Lane Width (m)									
Fit											Walking Speed (m/s)									
Fit Protected	1.00										Percent Blockage									
Satd. Flow (prot)	3485										Right turn flare (veh)									
Fit Permitted	0.90										Median type									
Satd. Flow (perm)	3154										Median storage (veh)									
Peak-hour Factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	Upstream signal (m)									
Adj. Flow (vph)	24	695	109	78	937	56	63	11	56	41	Upstream signal (m)									
RTROR Reduction (vph)	0	8	0	3	0	0	0	0	35	0	Upstream signal (m)									
Lane Group Flow (vph)	0	820	0	0	1068	0	0	95	0	0	Upstream signal (m)									
Confil. Peds. (#/hr)	13	0%	6	6	13	7	5	5	5	5	Upstream signal (m)									
Heavy Vehicles (%)	0%	2%	3%	0%	1%	0%	0%	0%	0%	0%	Upstream signal (m)									
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Upstream signal (m)									
Protected Phases	2		2		2		4		4		Upstream signal (m)									
Permitted Phases											Upstream signal (m)									
Actuated Green, G (s)	56.9		56.9		56.9		12.7		12.7		Upstream signal (m)									
Effective Green, g (s)	56.9		56.9		56.9		12.7		12.7		Upstream signal (m)									
Actuated g/C Ratio	0.69		0.69		0.69		0.15		0.15		Upstream signal (m)									
Clearance Time (s)	6.0		6.0		6.0		6.5		6.5		Upstream signal (m)									
Vehicle Extension (s)	3.0		3.0		3.0		3.0		3.0		Upstream signal (m)									
Lane Grp Cap (vph)	2185		2016		230		230		230		Upstream signal (m)									
v/s Ratio Prod											Upstream signal (m)									
v/s Ratio Perm	0.26		0.37		c0.06		0.05				Upstream signal (m)									
vic Ratio	0.38		0.53		0.41		0.31				Upstream signal (m)									
Uniform Delay, d1	5.2		6.1		31.3		30.8				Upstream signal (m)									
Progression Factor	1.00		1.00		1.00		1.00				Upstream signal (m)									
Incremental Delay, d2	0.5		1.0		1.2		0.8				Upstream signal (m)									
Delay (s)	5.7		7.1		32.6		31.6				Upstream signal (m)									
Level of Service	A		A		C		C				Upstream signal (m)									
Approach Delay (s)	5.7		7.1		32.6		31.6				Upstream signal (m)									
Approach LOS	A		A		C		C			</td										

Timings 3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street												<Total> 2027 Weekday PM Peak Hour 05-25-2022												<Total> 2027 Weekday PM Peak Hour 05-25-2022											
HCM Signalized Intersection Capacity Analysis 3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street												HCM 2000 Level of Service												Intersection Summary											
Lane Group	EBL	EFT	WBL	WBT	NBL	NBT	SBL	SBT	Lane Configurations	EBL	EFT	WBL	WBT	NBL	NBT	SBL	SBT	Lane Util Factor	EBL	EFT	WBL	WBT	NBL	NBT	SBL	SBT	Peak-hour Factor, PHF	EBL	EFT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	14	873	16	954	15	0	6	0	Traffic Volume (vph)	14	873	42	16	954	6	15	0	13	6	0	5	14	873	42	16	954	6	15	0	13	6	0	5		
Traffic Volume (vph)	14	873	16	954	15	0	6	0	Future Volume (vph)	14	873	42	16	954	6	15	0	13	6	0	5	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Ideal Flow (vphol)	1900	1900	1900	1900	1900	1900	1900	1900	Total Lost time (s)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5					
Protected Phases	2	2	2	2	4	4	4	4	Fit	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	Lane Util Factor	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00					
Detector Phase	2	2	2	2	4	4	4	4	Fit Protected	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Said Flow (prot)	3551	3572	1719	1727	1719	1719	1719	1719	1727	1727	1727	1727					
Switch Phase									Fit Permitted	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	Said Flow (perm)	3317	3330	1459	1428	1459	1459	1459	1459	1428	1428	1428	1428					
Minimum Initial (s)	8.0	8.0	8.0	8.0	12.0	12.0	12.0	12.0	Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	Adj. Flow (vph)	15	949	46	17	1037	7	16	0	14	7	0	5					
Minimum Split (s)	21.0	21.0	27.0	27.0	30.5	30.5	30.5	30.5	RTOR Reduction (vph)	0	0	2	0	0	0	0	0	Lane Group Flow (vph)	0	1008	0	0	1061	0	0	0	2	0	0	1					
Total Split (s)	60.0	60.0	60.0	60.0	40.0	40.0	40.0	40.0	Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA					
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%	Protected Phases	2	2	2	2	2	2	2	2	Permitted Phases	2	2	2	2	2	2	2	2	4	4	4	4					
Yellow Time (s)	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0	Actuated Green, G (s)	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	Effective Green, g (s)	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	Recall Mode	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
All Red Time (s)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	Actuated g/C Ratio	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	Vehicle Extension (s)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	vic Ratio	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Clearance Time (s)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	Lane Gap Cap (vph)	2577	2887	114	114	2887	2887	2887	2887	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.0	6.0	6.0	6.0	6.5	6.5	6.5	6.5	VS Ratio Perm	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	VS Ratio Prot	0.39	0.39	0.41	0.41	0.32	0.32	0.32	0.32	Approach LOS	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Leaflet lag									Uniform Delay, d1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Lead-Lag Optimize?	4	4	4	4	4	4	4	4
Recall Mode	Max	Max	Max	Max	None	None	None	None	Incremental Delay, d2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	Delay (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	Act Elct Green (s)	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
Act Elct Green (s)	70.0	70.0	70.0	70.0	12.1	12.1	12.1	12.1	Level of Service	A	A	A	A	A	A	A	A	Approach LOS	A	A	A	A	A	A	A	A	vic Ratio	D	D	D	D	D	D	D	D
Actuated g/C Ratio	0.84	0.84	0.84	0.84	0.14	0.14	0.14	0.14	Approach Delay (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	Approach LOS	A	A	A	A	A	A	A	A	Approach LOS	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
vic Ratio	0.36	0.36	0.38	0.38	0.13	0.13	0.05	0.05	Intersection LOS: A	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	HCM 2000 Level of Service	A	A	A	A	A	A	A	A	Intersection Summary	4	4	4	4	4	4	4	4
Control Delay	3.9	3.9	4.0	4.0	12.4	12.4	3.5	3.5	Incremental Delay, d2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Actuated Cycle Length (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	3.9	3.9	4.0	4.0	12.4	12.4	3.5	3.5	Level of Service	A	A	A	A	A	A	A	A	Approach LOS	A	A	A	A	A	A	A	A	Approach LOS	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
LOS									Approach Delay (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	Approach LOS	A	A	A	A	A	A	A	A	Approach LOS	D	D	D	D	D	D	D	D
Approach Delay	3.9	3.9	4.0	4.0	12.4	12.4	3.5	3.5	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Approach LOS	A	A	A	A	A	A	A	A	Approach LOS	D	D	D	D	D	D	D	D
Approach LOS	A	A	A	A	B	B	A	A	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Intersection Summary									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Length, 100									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Actuated Cycle Length: 83.8									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Cycle: 60									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Type: Semi Act-Uncoord									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum Vic Ratio: 0.38									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Intersection Signal Delay: 4.0									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Intersection Capacity Utilization: 58.3%									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Analysis Period (min): 15									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spills and Phases: 3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street									LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diagram:	Diagram showing signal phases and timing for 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street. It includes a timeline from 00:00 to 00:15, with green, red, and yellow phases. Arrows indicate signal transitions.								LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	LOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<Total> 2027 Weekday PM Peak Hour							
Timings 4: Bloor Street & Fieldgate Drive							
EBL	EFT	WBL	WFT	NBL	NFT	SBL	SFT
95	686	61	710	58	27	129	49
95	686	61	710	58	27	129	49
Turn Type	pm-apt	NA	Perm	NA	Perm	NA	
Protected Phases	5	2	6	4	4	8	8
Detector Phase	5	2	6	4	4	8	8
Switch Phase							
Minimum Initial (s)	5.0	8.0	10	8.0	8.0	10	10
Minimum Split (s)	10.0	34.0	34.0	40.0	40.0	40.0	40.0
Total Split (s)	16.0	60.0	44.0	44.0	40.0	40.0	40.0
Total Split (%)	16.0%	60.0%	44.0%	44.0%	40.0%	40.0%	40.0%
Yellow Time (s)	3.0	3.5	3.5	3.0	3.0	3.0	3.0
All Red Time (s)	0.0	2.5	2.5	3.5	3.5	3.5	3.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.0	6.0	6.0	6.5	6.5	6.5	6.5
Lead/Lag	lag	lag	lag	lag	lag	lag	lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	C-Max	None	None	None	None	None
Act Elct Green (s)	73.7	70.7	61.4	61.4	16.8	16.8	16.8
v/c Ratio	0.74	0.71	0.61	0.61	0.17	0.17	0.17
Control Delay	5.9	6.6	12.2	11.6	42.0	15.6	53.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	5.9	6.6	12.2	11.6	42.0	15.6	53.4
LOS	A	A	B	B	D	B	B
Approach Delay	6.5	11.7	26.3	32.4			
Approach LOS	A	B	C	C	C	C	C
Intersection Summary							
Cycle Length (s)							
Actuated Cycle Length: 100							
Offset: 0 (0%)							
Referenced to phase 2: EBT1, Start of Green							
Natural Cycle: 85							
Control Type: Actuated-Coordinated							
Maximum v/c Ratio: 0.67							
Intersection Signal Delay: 13.4							
Intersection Capacity Utilization: 76.0%							
Analysis Period (min)	15						
Spills and Phases: 4: Bloor Street & Fieldgate Drive							
0.22 (E)	0.4	0.4	0.4	0.4	0.4	0.4	0.4
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

<Total> 2027 Weekday PM Peak Hour							
HCM Signalized Intersection Capacity Analysis							
4: Bloor Street & Fieldgate Drive							
Movement	EBL	EFT	WBL	WFT	NBL	NFT	SBL
Lane Configurations	95	686	61	710	58	27	129
Traffic Volume (vph)	95	686	61	710	58	27	49
Future Volume (vph)	95	686	61	710	58	27	49
Turn Type	pm-apt	NA	Perm	NA	Perm	NA	
Protected Phases	5	2	6	4	4	8	8
Detector Phases	5	2	6	4	4	8	8
Switch Phase							
Minimum Initial (s)	5.0	8.0	10	8.0	8.0	10	10
Minimum Split (s)	10.0	34.0	34.0	40.0	40.0	40.0	40.0
Total Split (s)	16.0	60.0	44.0	44.0	40.0	40.0	40.0
Total Split (%)	16.0%	60.0%	44.0%	44.0%	40.0%	40.0%	40.0%
Yellow Time (s)	3.0	3.5	3.5	3.0	3.0	3.0	3.0
All Red Time (s)	0.0	2.5	2.5	3.5	3.5	3.5	3.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.0	6.0	6.0	6.5	6.5	6.5	6.5
Lead/Lag	lag	lag	lag	lag	lag	lag	lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	C-Max	None	None	None	None	None
Act Elct Green (s)	73.7	70.7	61.4	61.4	16.8	16.8	16.8
v/c Ratio	0.74	0.71	0.61	0.61	0.17	0.17	0.17
Control Delay	5.9	6.6	12.2	11.6	42.0	15.6	53.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	5.9	6.6	12.2	11.6	42.0	15.6	53.4
LOS	A	A	B	B	D	B	B
Approach Delay	6.5	11.7	26.3	32.4			
Approach LOS	A	B	C	C	C	C	C
Lane Configuration							
Traffic Volume (vph)	95	686	61	710	58	27	49
Future Volume (vph)	95	686	61	710	58	27	49
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	6.0	6.0	6.0	6.0	6.0	6.0
Lane Util Factor	1.00	0.95	1.00	0.95	1.00	0.95	1.00
Fpb: ped/bikes	1.00	0.99	1.00	0.99	1.00	0.99	1.00
Fpb: ped/bikes	1.00	1.00	1.00	0.98	1.00	0.98	1.00
Fit	1.00	0.98	1.00	0.98	1.00	0.98	1.00
Fit Protected	0.95	1.00	0.95	1.00	0.95	1.00	0.95
Satd. Flow (prot)	1783	3496	1763	3476	1758	3461	1739
Fit Permitted	0.26	1.00	0.33	1.00	0.53	1.00	0.70
Satd. Flow (perm)	493	3496	615	3476	982	1641	1274
Peak-hour Factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	106	762	91	789	112	64	30
RTOR Reduction (vph)	0	6	0	7	0	53	0
Lane Group Flow (vph)	106	847	0	68	894	0	143
Conf. Ped. (#/hr)	35	27	27	35	26	35	35
Conf. Bikes (#/hr)	1	1	1	1	1	1	1
Turn Type	pm+pl	NA	pm+pl	NA	pm+pl	NA	pm+pl
Protected Phases	2	2	6	6	4	4	8
Permitted Phases	2	2	6	6	4	4	8
Actuated Green, G (s)	70.7	70.7	61.3	61.3	16.8	16.8	16.8
Effective Green, g (s)	70.7	70.7	61.3	61.3	16.8	16.8	16.8
Actuated g/C Ratio	0.71	0.71	0.61	0.61	0.17	0.17	0.17
Clearance Time (s)	3.0	3.0	6.0	6.0	6.5	6.5	6.5
Vehicle Extension (s)	2.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Gap Cap (vph)	431	2471	376	2130	164	275	214
V/S Ratio Prot	0.02	0.24	0.02	0.24	0.02	0.02	0.05
V/S Ratio Perm	0.16	0.11	0.16	0.11	0.07	0.11	
V/C Ratio	0.25	0.34	0.18	0.42	0.39	0.39	0.28
Uniform Delay, d1	5.3	5.7	8.4	10.1	37.0	35.5	39.0
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	0.4	0.2	0.1	1.5	0.3	1.7
Delay (s)	5.4	6.0	8.7	10.2	38.6	35.7	46.7
Level of Service	A	A	A	B	D	D	D
Approach Delay (s)	6.0	10.1	B	B	36.9	41.1	D
Approach LOS	A				B	D	D
Intersection Summary							
HCM 2000 Control Delay							
HCM 2000 Volume to Capacity ratio							
Actuated Cycle Length (s)							
Intersection Capacity Utilization							
Analysis Period (min)							
C Critical Lane Group							

Proposed Residential Addition to Existing Residential Development, 1785 Bloor Street, Mississauga, ON
Trans-Plan

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Queuing and Blocking Report

<Total> 2027 Weekday AM Peak Hour
05-25-2022

Intersection: 1: Bloor Street & Bridgewood Drive						
Movement	EB	WB	WB	NB	SB	
Directions Served	LT	TR	LT	TR	LTR	LTR
Maximum Queue (m)	65.4	66.4	40.1	39.4	60.9	36.7
Average Queue (m)	39.3	40.9	19.8	18.2	27.9	15.9
95th Queue (m)	62.3	67.2	33.5	36.3	49.5	28.4
Link Distance (m)	165.6	165.6	509.7	509.7	75.1	152.2
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (m)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 2: Bloor Street & 1756 Bloor Street Driveway

Movement	EB	WB	WB	SB	
Directions Served	LT	T	TR	LR	
Maximum Queue (m)	15.2	35.5	29.9	9.1	
Average Queue (m)	2.3	7.3	10.4	3.0	
95th Queue (m)	10.0	21.7	27.6	10.1	
Link Distance (m)	12.1	165.6	165.6	65.1	
Upstream Blk Time (%)	0				
Queuing Penalty (veh)	1				
Storage Bay Dist (m)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street

Movement	EB	EB	WB	WB	NB	SB	
Directions Served	LT	TR	LT	TR	LTR	LTR	
Maximum Queue (m)	52.0	53.3	15.8	22.2	22.4	8.9	
Average Queue (m)	22.7	24.9	12.7	13.1	11.3	3.2	
95th Queue (m)	44.8	47.4	19.6	22.5	20.6	10.3	
Link Distance (m)	199.8	199.8	12.1	12.1	37.8	43.0	
Upstream Blk Time (%)	8	9					
Queuing Penalty (veh)	25	27					
Storage Bay Dist (m)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Queuing and Blocking Report

<Total> 2027 Weekday AM Peak Hour
05-25-2022

Intersection: 4: Bloor Street & Fieldgate Drive						
Movement	EB	EB	WB	WB	NB	SB
Directions Served	L	T	TR	L	T	TR
Maximum Queue (m)	40.5	54.9	20.9	61.7	77.4	34.3
Average Queue (m)	19.1	31.7	33.1	5.8	34.5	40.4
95th Queue (m)	34.5	49.1	52.0	14.9	57.8	65.2
Link Distance (m)	552.4	552.4	199.8	199.8	141.4	163.6
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (m)	50.0		50.0		2	40.0
Storage Blk Time (%)			0		1	0
Queuing Penalty (veh)	0				1	40

Network Summary

Network wide Queuing Penalty: 108

Queuing and Blocking Report

<Total> 2027 Weekday PM Peak Hour
05-25-2022

Intersection: 1: Bloor Street & Bridgewood Drive						
Movement	EB	WB	WB	NB	SB	
Directions Served	LT	TR	LT	TR	LT/R	LTR
Maximum Queue (m)	70.8	83.6	57.5	34.1	33.8	
Average Queue (m)	25.0	33.6	37.3	31.9	16.9	13.3
95th Queue (m)	54.1	64.6	57.9	56.5	29.2	24.9
Link Distance (m)	165.6	165.6	509.7	509.7	75.1	152.2
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (m)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 2: Bloor Street & 1756 Bloor Street Driveway

Movement	EB	WB	WB	SB	
Directions Served	LT	T	TR	LR	
Maximum Queue (m)	15.3	72.6	68.1	15.5	
Average Queue (m)	7.5	38.2	43.6	4.6	
95th Queue (m)	18.8	67.7	68.7	13.1	
Link Distance (m)	12.1	165.6	165.6	65.1	
Upstream Blk Time (%)	4				
Queuing Penalty (veh)	17				
Storage Bay Dist (m)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 3: 1750 Bloor Street Driveway/1759 Bloor Street Driveway & Bloor Street

Movement	EB	EB	WB	WB	NB	SB	
Directions Served	LT	TR	LT	TR	LT/R	LTR	
Maximum Queue (m)	73.5	70.8	19.4	22.6	15.7	8.9	
Average Queue (m)	27.7	32.2	15.8	15.8	6.0	1.3	
95th Queue (m)	48.9	56.3	17.2	18.0	13.7	6.4	
Link Distance (m)	199.8	199.8	12.1	12.1	37.8	43.0	
Upstream Blk Time (%)	29	32					
Queuing Penalty (veh)	133	147					
Storage Bay Dist (m)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Queuing and Blocking Report

<Total> 2027 Weekday PM Peak Hour
05-25-2022

Intersection: 4: Bloor Street & Fieldgate Drive						
Movement	EB	EB	WB	WB	NB	SB
Directions Served	L	T	TR	L	T	TR
Maximum Queue (m)	34.6	49.3	51.9	28.7	47.4	34.9
Average Queue (m)	14.0	29.8	33.2	11.9	16.3	20.0
95th Queue (m)	26.0	46.5	51.2	24.0	35.5	39.9
Link Distance (m)	552.4	552.4	199.8	199.8	141.4	163.6
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (m)	50.0		50.0		40.0	25.0
Storage Blk Time (%)	0		0		0	13
Queuing Penalty (veh)	0		0		0	5

Network Summary

Network wide Queuing Penalty: 326



APPENDIX D

Pedestrian Crossover (PXO) Survey

Signalized Pedestrian Crossing Survey



Location: Bloor Street PXO, 40m west of 1785 Bloor Street Driveway

Ped Signal Duration: 30 Seconds

Interval	Ped Call	Number of Cars Queued (West Leg)	Ped Calls/Hour =	13
			Average Number of Cars Queued =	5
8:00	x	4		
	x	4		
	x	1		
8:15	x	10		
	x	8		
	x	1		
	x	9		
	x	0		
8:30	x	5		
	x	5		
	x	4		
8:45	x	12		
	x	1		
Total	13			

			Ped Calls/Hour =	14
			Average Number of Cars Queued =	9
3:00	x	5		
	x	3		
	x	6		
	x	8		
	x	14		
3:15	x	12		
	x	13		
3:30	x	8		
	x	12		
	x	6		
	x	11		
	x	12		
3:45	x	12		
	x	6		
Total	14			



APPENDIX E

City of Mississauga Zoning By-law 0225-2007

3.1.2 Required Number of Parking Spaces
3.1.2.1 Required Number of Parking Spaces for Residential Uses

3.1.2.1.1 Off-street parking spaces for residential uses shall be provided in accordance with Table 3.1.2.1 - Required Number of Off-Street Parking Spaces for Residential Uses. (0117-2022)

Table 3.1.2.1 - Required Number of Off-Street Parking Spaces for Residential Uses
*(0207-2008), (0297-2013), (0174-2017), (0179-2018), (0181-2018/LPAT Order 2019 February 15),
 (0111-2019/LPAT Order 2021 March 09), (0018-2021), (0117-2022), (0213-2022)*

Column A	B	C	D	E	F	
Line 1.0	TYPE OF USE	UNIT OF MEASUREMENT	PRECINCT 1	PRECINCT 2	PRECINCT 3	PRECINCT 4
2.0	Condominium Apartment	resident spaces per unit	0.8	0.9	1.0	1.1
		visitor spaces per unit	0.2	0.2	0.2	0.2
3.0	Rental Apartment	resident spaces per unit	0.8	0.8	0.9	1.0
		visitor spaces per unit	0.2	0.2	0.2	0.2
4.0	Public authority dwelling unit or dwelling unit provided by a non-profit housing provider in a rental apartment	resident spaces per unit	0.4	0.6	0.65	0.7
		visitor spaces per unit	0.2	0.2	0.2	0.2
5.0	Apartment (within CC1 to CC4 zones)	0.8 resident spaces per unit 0.15 visitor spaces per unit ⁽¹⁾				
6.0	Detached Dwelling, Linked Dwelling, Semi-Detached, Street Townhouse	spaces per unit	2.0	2.0	2.0	2.0
7.0	Condominium Detached Dwelling, Condominium Semi-Detached, Condominium Townhouse, Detached Dwelling on a CEC - Road, Semi-Detached on a CEC - Road, Townhouse on a CEC - Road	resident spaces per unit	2.0	2.0	2.0	2.0
		visitor spaces per unit	0.25	0.25	0.25	0.25
8.0	Duplex, Triplex	spaces per unit	1.25	1.25	1.25	1.25
9.0	Dwelling units located above a commercial development with a maximum height of three storeys	spaces per unit	1.0	1.0	1.0	1.0
10.0	Group Home	spaces per unit	2.0	2.0	2.0	2.0
11.0	Back to Back and Stacked Townhouse without exclusive use garage and driveway	resident spaces per unit	1.0	1.1	1.3	1.5
		visitor spaces per unit	0.25	0.25	0.25	0.25

Table 3.1.2.1 continued on next page



APPENDIX F

Parking Utilization Survey Results

Parking Survey at 1785 Bloor Street, Mississauga

Friday, September 8, 2023

6:00 pm until 1:00 am

Time	Visitors	Residents	
6:00 pm	2	51	53
6:30	3	48	51
7:00	3	47	50
7:30	3	46	49
8:00	2	47	49
8:30	1	51	52
9:00	2	52	54
9:30	2	53	55
10:00	1	59	60
10:30	1	58	59
11:00	1	60	61
11:30	1	64	65
12:00	0	66	66
12:30	1	67	68
1:00 am	0	69	69

Parking Survey at 1785 Bloor Street, Mississauga

Saturday, September 9, 2023

2:00 pm until 1:00 am

Time	Visitors	Residents
2:00 pm	1	46
2:30	1	47
3:00	2	47
3:30	2	47
4:00	3	48
4:30	3	45
5:00	4	46
5:30	4	51
6:00	4	53
6:30	3	51
7:00	1	49
7:30	1	53
8:00	1	52
8:30	2	51
9:00	2	53
9:30	2	53
10:00	2	54
10:30	1	57
11:00	0	60
11:30	1	61
12:00	1	67
12:30	1	67
1:00 am	1	67

47
48
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Parking Survey at 1785 Bloor Street, Mississauga

Sunday, September 10, 2023

2:00 pm until 1:00 am

Time	Visitors	Residents	
2:00 pm	2	52	54
2:30	1	59	60
3:00	1	50	51
3:30	2	50	52
4:00	2	53	55
4:30	1	54	55
5:00	1	58	59
5:30	1	60	61
6:00	2	54	56
6:30	2	54	56
7:00	3	53	56
7:30	2	55	57
8:00	2	57	59
8:30	2	60	62
9:00	2	61	63
9:30	2	66	68
10:00	1	68	69
10:30	3	68	71
11:00	1	67	68
11:30	1	69	70
12:00	1	70	71
12:30	1	70	71
1:00 am	1	70	71

Parking Survey at 1785 Bloor Street, Mississauga

Friday, September 15, 2023

6:00 pm until 1:00 am

Time	Visitors	Residents
6:00 pm	2	47
6:30	2	50
7:00	1	49
7:30	1	47
8:00	2	51
8:30	2	54
9:00	2	57
9:30	1	57
10:00	1	61
10:30	1	62
11:00	1	61
11:30	1	63
12:00	1	63
12:30	1	63
1:00 am	1	63

Parking Survey at 1785 Bloor Street, Mississauga

Saturday, September 16, 2023

2:00 pm until 1:00 am

Time	Visitors	Residents
2:00 pm	0	50
2:30	1	48
3:00	1	46
3:30	1	44
4:00	0	49
4:30	0	46
5:00	0	44
5:30	0	44
6:00	2	49
6:30	2	53
7:00	3	52
7:30	3	51
8:00	3	47
8:30	3	49
9:00	4	48
9:30	4	51
10:00	1	53
10:30	1	58
11:00	1	58
11:30	1	59
12:00	0	60
12:30	0	61
1:00 am	0	62

Parking Survey at 1785 Bloor Street, Mississauga

Sunday, September 17, 2023

2:00 pm until 1:00 am

Time	Visitors	Residents	
2:00 pm	2	49	51
2:30	1	51	52
3:00	2	49	51
3:30	2	45	47
4:00	2	46	48
4:30	2	44	46
5:00	2	44	46
5:30	2	50	52
6:00	2	55	57
6:30	3	53	56
7:00	2	55	57
7:30	2	55	57
8:00	3	55	58
8:30	2	57	59
9:00	2	60	62
9:30	3	61	64
10:00	2	61	63
10:30	1	63	64
11:00	1	68	69
11:30	1	68	69
12:00	1	67	68
12:30	1	68	69
1:00 am	1	69	70